

SiteSnagger Table of Contents

- [PlacementPapers.com -- papers of campus placement and recruitment \(index.htm - http://www.placementpapers.com\)](http://www.placementpapers.com/index.htm)
- [PlacementPapers.com -- papers of campus placement and recruitment \(compindex.htm - http://www.placementpapers.com/compindex.htm\)](http://www.placementpapers.com/compindex.htm)
- [Aditi Technologies sample paper for campus placement and recruitment \(Aditi.htm - http://www.placementpapers.com/Aditi/Aditi.htm\)](http://www.placementpapers.com/Aditi/Aditi.htm)
- [Aditi Sample Paper for Campus Placement \(Aditi1.htm - http://www.placementpapers.com/Aditi/Aditi1.htm\)](http://www.placementpapers.com/Aditi/Aditi1.htm)
- [Aztec Sample Paper For Campus Placements \(Aztec.htm - http://www.placementpapers.com/Aztec/Aztec.htm\)](http://www.placementpapers.com/Aztec/Aztec.htm)
- [Aztec Sample Test Paper For Campus Recruitment \(Aztec1.htm - http://www.placementpapers.com/Aztec/Aztec1.htm\)](http://www.placementpapers.com/Aztec/Aztec1.htm)
- [BAAN Sample Test For Campus Recruitment \(BAAN.htm - http://www.placementpapers.com/BAAN/BAAN.htm\)](http://www.placementpapers.com/BAAN/BAAN.htm)
- [BAAN Sample paper for campus placement and recruitment \(BAAN1.htm - http://www.placementpapers.com/BAAN/BAAN1.htm\)](http://www.placementpapers.com/BAAN/BAAN1.htm)
- [Mphasis-BFL Sample Test For Campus Recruitment \(BFL.htm - http://www.placementpapers.com/BFL/BFL.htm\)](http://www.placementpapers.com/BFL/BFL.htm)
- [BFL Sample Test Paper For Campus Recruitment \(BFL1.htm - http://www.placementpapers.com/BFL/BFL1.htm\)](http://www.placementpapers.com/BFL/BFL1.htm)
- [Cisco sample paper for campus placement and recruitment \(Cisco.htm - http://www.placementpapers.com/Cisco/Cisco.htm\)](http://www.placementpapers.com/Cisco/Cisco.htm)
- [Cisco Sample Test \(Cisco1.htm - http://www.placementpapers.com/Cisco/Cisco1.htm\)](http://www.placementpapers.com/Cisco/Cisco1.htm)
- [CMC Sample Test For Campus Recruitment \(CMC.htm - http://www.placementpapers.com/CMC/CMC.htm\)](http://www.placementpapers.com/CMC/CMC.htm)
- [CMC Sample Test For Campus Recruitment \(CMC1.htm - http://www.placementpapers.com/CMC/CMC1.htm\)](http://www.placementpapers.com/CMC/CMC1.htm)
- [CTS Sample Test For Campus Recruitment \(CTS.htm - http://www.placementpapers.com/CTS/CTS.htm\)](http://www.placementpapers.com/CTS/CTS.htm)
- [CTS Sample Test For Campus Recruitment \(CTS1.htm - http://www.placementpapers.com/CTS/CTS1.htm\)](http://www.placementpapers.com/CTS/CTS1.htm)

- [CTS Sample Test For Campus Recruitment \(CTS2.htm - http://www.placementpapers.com/CTS/CTS2.htm\)](http://www.placementpapers.com/CTS/CTS2.htm)
- [CTS Sample Test For Campus Recruitment \(CTS3.htm - http://www.placementpapers.com/CTS/CTS3.htm\)](http://www.placementpapers.com/CTS/CTS3.htm)
- [D E Shaw sample paper for campus placement and recruitment \(DEShaw.htm - http://www.placementpapers.com/DEShaw/DEShaw.htm\)](http://www.placementpapers.com/DEShaw/DEShaw.htm)
- [DEShaw Sample Paper \(DEShaw1.htm - http://www.placementpapers.com/DEShaw/DEShaw1.htm\)](http://www.placementpapers.com/DEShaw/DEShaw1.htm)
- [Deutsche Soft sample paper for campus placement and recruitment \(DSIL.htm - http://www.placementpapers.com/DeutscheSoft/DSIL.htm\)](http://www.placementpapers.com/DeutscheSoft/DSIL.htm)
- [DeutscheSoft Sample Paper \(DSIL1.htm - http://www.placementpapers.com/DeutscheSoft/DSIL1.htm\)](http://www.placementpapers.com/DeutscheSoft/DSIL1.htm)
- [Dharma Sample Paper For Campus Placements \(Dharma.htm - http://www.placementpapers.com/Dharma/Dharma.htm\)](http://www.placementpapers.com/Dharma/Dharma.htm)
- [Dharma Sample Test Paper For Campus Recruitment \(Dharma1.htm - http://www.placementpapers.com/Dharma/Dharma1.htm\)](http://www.placementpapers.com/Dharma/Dharma1.htm)
- [Future Soft sample paper for campus placement and recruitment \(FutSoft.htm - http://www.placementpapers.com/FutureSoft/FutSoft.htm\)](http://www.placementpapers.com/FutureSoft/FutSoft.htm)
- [Future Soft sample paper for campus placement and recruitment \(FutSoft1.htm - http://www.placementpapers.com/FutureSoft/FutSoft1.htm\)](http://www.placementpapers.com/FutureSoft/FutSoft1.htm)
- [Geometrics sample paper for campus placement and recruitment \(GSSL.htm - http://www.placementpapers.com/GSSL/GSSL.htm\)](http://www.placementpapers.com/GSSL/GSSL.htm)
- [Geometrics sample paper for campus placement and recruitment \(GSSL1.htm - http://www.placementpapers.com/GSSL/GSSL1.htm\)](http://www.placementpapers.com/GSSL/GSSL1.htm)
- [HCL System Software sample paper for campus recruitment \(HCL.htm - http://www.placementpapers.com/HCL/HCL.htm\)](http://www.placementpapers.com/HCL/HCL.htm)
- [HCL System Software sample paper for campus recruitment \(HCL1.htm - http://www.placementpapers.com/HCL/HCL1.htm\)](http://www.placementpapers.com/HCL/HCL1.htm)
- [Hexaware Sample Test For Campus Recruitment \(Hexaware.htm - http://www.placementpapers.com/Hexaware/Hexaware.htm\)](http://www.placementpapers.com/Hexaware/Hexaware.htm)
- [Hexaware Sample Test \(Hexaware1.htm - http://www.placementpapers.com/Hexaware/Hexaware1.htm\)](http://www.placementpapers.com/Hexaware/Hexaware1.htm)
- [Hughes sample paper for campus placement and recruitment \(HSS.htm - http://www.placementpapers.com/Hughes/HSS.htm\)](http://www.placementpapers.com/Hughes/HSS.htm)
- [Hughes Sample Paper \(HSS1.htm - http://www.placementpapers.com/Hughes/HSS1.htm\)](http://www.placementpapers.com/Hughes/HSS1.htm)
- [Hughes Sample Paper \(HSS2.htm - http://www.placementpapers.com/Hughes/HSS2.htm\)](http://www.placementpapers.com/Hughes/HSS2.htm)
- [Mascot Sample Paper For Campus Placement \(Mascot.htm - http://www.placementpapers.com/Mascot/Mascot.htm\)](http://www.placementpapers.com/Mascot/Mascot.htm)

- [Mascot Sample Test Paper \(Mascot1.htm - http://www.placementpapers.com/Mascot/Mascot1.htm\)](http://www.placementpapers.com/Mascot/Mascot1.htm)
- [Mascot Sample Test Paper \(Mascot2.htm - http://www.placementpapers.com/Mascot/Mascot2.htm\)](http://www.placementpapers.com/Mascot/Mascot2.htm)
- [MBT Sample Paper For Campus Placements \(MBT.htm - http://www.placementpapers.com/MBT/MBT.htm\)](http://www.placementpapers.com/MBT/MBT.htm)
- [MBT Sample Paper For Campus Placements \(MBT1.htm - http://www.placementpapers.com/MBT/MBT1.htm\)](http://www.placementpapers.com/MBT/MBT1.htm)
- [Novell Netware sample paper for campus placement and recruitment \(Novell.htm - http://www.placementpapers.com/Novell/Novell.htm\)](http://www.placementpapers.com/Novell/Novell.htm)
- [Novell Netware sample paper for campus placement and recruitment \(Novell1.htm - http://www.placementpapers.com/Novell/Novell1.htm\)](http://www.placementpapers.com/Novell/Novell1.htm)
- [Nucleus sample paper for campus placement and recruitment \(NucleusMain.htm - http://www.placementpapers.com/Nucleus/NucleusMain.htm\)](http://www.placementpapers.com/Nucleus/NucleusMain.htm)
- [Nucleus sample paper for campus placement and recruitment \(Nucleus.htm - http://www.placementpapers.com/Nucleus/Nucleus.htm\)](http://www.placementpapers.com/Nucleus/Nucleus.htm)
- [Ramco Sample Test For Campus Recruitment \(Ramco.htm - http://www.placementpapers.com/Ramco/Ramco.htm\)](http://www.placementpapers.com/Ramco/Ramco.htm)
- [Ramco Sample Test Paper For Campus Recruitment \(Ramco1.htm - http://www.placementpapers.com/Ramco/Ramco1.htm\)](http://www.placementpapers.com/Ramco/Ramco1.htm)
- [Ramco Sample Test Paper For Campus Recruitment \(RamcoC.htm - http://www.placementpapers.com/Ramco/RamcoC.htm\)](http://www.placementpapers.com/Ramco/RamcoC.htm)
- [Satyam Sample Paper For Campus Placements \(Satyam.htm - http://www.placementpapers.com/Satyam/Satyam.htm\)](http://www.placementpapers.com/Satyam/Satyam.htm)
- [Satyam Sample Paper For Campus Placements \(Satyam1.htm - http://www.placementpapers.com/Satyam/Satyam1.htm\)](http://www.placementpapers.com/Satyam/Satyam1.htm)
- [Siemens Sample paper for campus placement and recruitment \(SiemensInfo.htm - http://www.placementpapers.com/SiemensInfo/SiemensInfo.htm\)](http://www.placementpapers.com/SiemensInfo/SiemensInfo.htm)
- [Siemens sample paper for campus placement and recruitment \(SiemensInfo1.htm - http://www.placementpapers.com/SiemensInfo/SiemensInfo1.htm\)](http://www.placementpapers.com/SiemensInfo/SiemensInfo1.htm)
- [TataInfotech Sample Paper For Campus Placements \(TISL.htm - http://www.placementpapers.com/TISL/TISL.htm\)](http://www.placementpapers.com/TISL/TISL.htm)
- [TataInfotech Sample Paper For Campus Placements \(TISL1.htm - http://www.placementpapers.com/TISL/TISL1.htm\)](http://www.placementpapers.com/TISL/TISL1.htm)
- [Verifone Sample paper for campus placement and recruitment \(Verifone.htm - http://www.placementpapers.com/Verifone/Verifone.htm\)](http://www.placementpapers.com/Verifone/Verifone.htm)
- [Verifone Sample paper for campus placement and recruitment \(Verifone1.htm - http://www.placementpapers.com/Verifone/Verifone1.htm\)](http://www.placementpapers.com/Verifone/Verifone1.htm)

- [PlacementPapers.com -- papers of campus placement and recruitment \(Intsec.htm - http://www.placementpapers.com/Intsec.htm\)](http://www.placementpapers.com/Intsec.htm)
- [PlacementPapers.com -- guide to group discussion \(gd.htm - http://www.placementpapers.com/gd.htm\)](http://www.placementpapers.com/gd.htm)
- [PlacementPapers.com -- papers of campus placement and recruitment \(donate.htm - http://www.placementpapers.com/donate.htm\)](http://www.placementpapers.com/donate.htm)
- [PlacementPapers.com -- papers of campus placement and recruitment \(abtus.htm - http://www.placementpapers.com/abtus.htm\)](http://www.placementpapers.com/abtus.htm)
- [Contact Addresses of Corporate Companies \(addmain.htm - http://www.placementpapers.com/CompAdd/addmain.htm\)](http://www.placementpapers.com/CompAdd/addmain.htm)
- [Contact Addresses of Corporate Companies \(listac.htm - http://www.placementpapers.com/CompAdd/listac.htm\)](http://www.placementpapers.com/CompAdd/listac.htm)
- [Contact Addresses of Corporate Companies \(listdj.htm - http://www.placementpapers.com/CompAdd/listdj.htm\)](http://www.placementpapers.com/CompAdd/listdj.htm)
- [Contact Addresses of Corporate Companies \(listkq.htm - http://www.placementpapers.com/CompAdd/listkq.htm\)](http://www.placementpapers.com/CompAdd/listkq.htm)
- [Contact Addresses of Corporate Companies \(listrs.htm - http://www.placementpapers.com/CompAdd/listrs.htm\)](http://www.placementpapers.com/CompAdd/listrs.htm)
- [Contact Addresses of Corporate Companies \(listtz.htm - http://www.placementpapers.com/CompAdd/listtz.htm\)](http://www.placementpapers.com/CompAdd/listtz.htm)
- [Off Campus Recruitment \(jobops.htm - http://www.placementpapers.com/jobops.htm\)](http://www.placementpapers.com/jobops.htm)
- [Axes Sample Paper For Campus Placements \(Axes.htm - http://www.placementpapers.com/Axes/Axes.htm\)](http://www.placementpapers.com/Axes/Axes.htm)
- [Axes Sample Paper for Campus Placement \(Axes1.htm - http://www.placementpapers.com/Axes/Axes1.htm\)](http://www.placementpapers.com/Axes/Axes1.htm)
- [i2 Sample Test For Campus Recruitment \(i2.htm - http://www.placementpapers.com/I2/i2.htm\)](http://www.placementpapers.com/I2/i2.htm)
- [CTS Sample Test Paper For Campus Recruitment \(I21.htm - http://www.placementpapers.com/I2/I21.htm\)](http://www.placementpapers.com/I2/I21.htm)
- [Lucent Technologies Sample Test For Campus Recruitment \(Lucent.htm - http://www.placementpapers.com/Lucent/Lucent.htm\)](http://www.placementpapers.com/Lucent/Lucent.htm)
- [Lucent Sample Test Paper For Campus Recruitment \(Lucent1.htm - http://www.placementpapers.com/Lucent/Lucent1.htm\)](http://www.placementpapers.com/Lucent/Lucent1.htm)
- [Patni Sample Paper For Campus Placements \(Patni.htm - http://www.placementpapers.com/Patni/Patni.htm\)](http://www.placementpapers.com/Patni/Patni.htm)
- [Patni Sample paper for campus placement and recruitment \(Patni1.htm - http://www.placementpapers.com/Patni/Patni1.htm\)](http://www.placementpapers.com/Patni/Patni1.htm)
- [Patni Sample paper for campus placement and recruitment \(Patnigd.htm - http://www.placementpapers.com/Patni/Patnigd.htm\)](http://www.placementpapers.com/Patni/Patnigd.htm)

- [WILCO Sample Test For Campus Recruitment \(WILCO.htm - http://www.placementpapers.com/WILCO/WILCO.htm\)](http://www.placementpapers.com/WILCO/WILCO.htm)
- [WILCO Sample Test Paper For Campus Recruitment \(WILCO1.htm - http://www.placementpapers.com/WILCO/WILCO1.htm\)](http://www.placementpapers.com/WILCO/WILCO1.htm)
- [Infosys sample paper for campus placement and recruitment \(Infy.htm - http://www.placementpapers.com/Infosys/Infy.htm\)](http://www.placementpapers.com/Infosys/Infy.htm)
- [Infosys Sample Test For Campus Recruitment \(Inf1.htm - http://www.placementpapers.com/Infosys/Inf1.htm\)](http://www.placementpapers.com/Infosys/Inf1.htm)
- [Infosys Sample Test For Campus Recruitment \(Inf2.htm - http://www.placementpapers.com/Infosys/Inf2.htm\)](http://www.placementpapers.com/Infosys/Inf2.htm)
- [Infosys Sample Test For Campus Recruitment \(Inf3.htm - http://www.placementpapers.com/Infosys/Inf3.htm\)](http://www.placementpapers.com/Infosys/Inf3.htm)
- [Infosys Sample Test For Campus Recruitment \(Inf4.htm - http://www.placementpapers.com/Infosys/Inf4.htm\)](http://www.placementpapers.com/Infosys/Inf4.htm)
- [Infosys Sample Test For Campus Recruitment \(Inf5.htm - http://www.placementpapers.com/Infosys/Inf5.htm\)](http://www.placementpapers.com/Infosys/Inf5.htm)
- [Infosys Sample Test For Campus Recruitment \(Inf6.htm - http://www.placementpapers.com/Infosys/Inf6.htm\)](http://www.placementpapers.com/Infosys/Inf6.htm)
- [Infosys Sample Test For Campus Recruitment \(Inf7.htm - http://www.placementpapers.com/Infosys/Inf7.htm\)](http://www.placementpapers.com/Infosys/Inf7.htm)
- [TCS Sample paper for campus placement and recruitment \(TCS.htm - http://www.placementpapers.com/TCS/TCS.htm\)](http://www.placementpapers.com/TCS/TCS.htm)
- [TCS Sample paper for campus placement and recruitment \(TCS1.htm - http://www.placementpapers.com/TCS/TCS1.htm\)](http://www.placementpapers.com/TCS/TCS1.htm)
- [TCS Sample paper for campus placement and recruitment \(TCS2.htm - http://www.placementpapers.com/TCS/TCS2.htm\)](http://www.placementpapers.com/TCS/TCS2.htm)
- [TCS C Sample Test for campus placements \(TCSC.htm - http://www.placementpapers.com/TCS/TCSC.htm\)](http://www.placementpapers.com/TCS/TCSC.htm)
- [IBM Global Sample Test For Campus Placements \(IBM.htm - http://www.placementpapers.com/IBM/IBM.htm\)](http://www.placementpapers.com/IBM/IBM.htm)
- [IBM Global Sample Test Paper \(IBM1.htm - http://www.placementpapers.com/IBM/IBM1.htm\)](http://www.placementpapers.com/IBM/IBM1.htm)
- [SUN Sample Paper For Campus Placements \(SUN.htm - http://www.placementpapers.com/SUN/SUN.htm\)](http://www.placementpapers.com/SUN/SUN.htm)
- [SUN Sample Paper For Campus Placements \(SUN1.htm - http://www.placementpapers.com/SUN/SUN1.htm\)](http://www.placementpapers.com/SUN/SUN1.htm)
- [Wipro Sample paper for campus placement and recruitment \(Wipro.htm - http://www.placementpapers.com/Wipro/Wipro.htm\)](http://www.placementpapers.com/Wipro/Wipro.htm)
- [Wipro Sample paper for campus placement and recruitment \(Wipro1.htm - http://www.placementpapers.com/Wipro/Wipro1.htm\)](http://www.placementpapers.com/Wipro/Wipro1.htm)

<http://www.placementpapers.com/Wipro/Wipro1.htm>)

- [Wipro Sample Test2 \(Wipro2.htm - http://www.placementpapers.com/Wipro/Wipro2.htm\)](http://www.placementpapers.com/Wipro/Wipro2.htm)
- [Wipro Infotech Sample Test For Campus Placements \(Wipro4.htm - http://www.placementpapers.com/Wipro/Wipro4.htm\)](http://www.placementpapers.com/Wipro/Wipro4.htm)
- [Wipro Infotech Sample Test For Campus Placements \(Wipro3.htm - http://www.placementpapers.com/Wipro/Wipro3.htm\)](http://www.placementpapers.com/Wipro/Wipro3.htm)
- [Site Use Rules \(disclaimer.htm - http://www.placementpapers.com/disclaimer.htm\)](http://www.placementpapers.com/disclaimer.htm)



[home](#)

[company
index](#)

[interview
section](#)

[contribute
here](#)

[about
us](#)

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This is YOUR site -- in our endeavour to provide you with sample papers of the companies doing rounds of the various Indian campuses, we hope to get full co-operation from your side without which this effort would not bear any fruit.

We welcome all constructive feedback on our site. We look forward towards the continual betterment of the site.

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Index of Companies

The following companies are listed in this site (in alphabetical order)

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

<u>A</u>	Aditi Technologies Axes Technologies Aztec
<u>B</u>	BAAN BFL(Mphasis-BFL) Software
<u>C</u>	Cisco CMC Cognizant Technology Solutions (CTS)
<u>D</u>	D. E. Shaw Deutsche Software Dharma Systems
<u>F</u>	Future Soft
<u>G</u>	Geometrics (GSSL)
<u>H</u>	HCL System Software Hexaware Hughes Software Systems (HSS)
<u>I</u>	i2 Technologies IBM Global Infosys Technologies Ltd
<u>L</u>	Lucent Technologies
<u>M</u>	Mascot Mahindra-British Telecom (MBT)
<u>N</u>	Novell Netware Nucleus Software Offshore Ltd.(NUCLEUS)

[home](#)
[company
index](#)
[interview
section](#)
[contribute
here](#)
[about
us](#)

<u>P</u>	<u>Patni Computer Systems (PCS)</u>
<u>R</u>	<u>Ramco Systems</u>
<u>S</u>	<u>Satyam Computers</u> <u>Siemens Information Systems Ltd. (SISL)</u> <u>Sun Microsystems</u>
<u>T</u>	<u>Tata Consultancy Services (TCS)</u> <u>Tata Infotech</u>
<u>V</u>	<u>Verifone Inc.</u>
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[home](#)
[company
index](#)
[interview
section](#)
[contribute
here](#)
[about
us](#)

Interview Section

After clearing the written test, companies usually interview the candidates to gauge his/her capabilities and personality. Basically there are two kinds of interviews, the technical one, where stress is laid on checking your fundamentals in your core subjects and the HR one, where your communication skills and personality is put to the test.

Check out the following sections for more details

Technical Section

Human Resources (HR) Section

General Tips for the Interview

Group Discussion (GD)

Technical Section

As we are from computers and electronics branches, so for the moment we have information regarding core subjects of these fields only. As most of the companies coming to the campuses are from the IT industry hence you may expect them to probe your computer skills regardless of your stream. **Knowledge of C** is always an added advantage.

For Computer Students

For a computer student knowledge of **C** is **essential**. Other important topics include

- **Data Structures**
- **Operating Systems**

Some students have also been grilled on Object Oriented Programming, C++ ,Microprocessor Architecture, Networking, Database Management, Automata, Compiler Design and Computer Graphics depending upon subjects covered till the most recent semester.

Some Commonly Asked Questions

References

For Computer Students

C

- Let Us C (Y. Kanetkar)
- Kernighan & Ritchie
- Gottfried (Schaum Series)
- Exploring C (Y. Kanetkar)

C++

- Waite Groups' Turbo C++

Data Structures

- Data Structures (Tannenbaum)
- Horowitz & Sahni
- Sorenson & Tremelay

Operating Systems

- Galvin & Silberschatz

DBMS

- Silberschatz
- Ullman
- Date

Microprocessors

1. Usage of pointers and their fundamentals in C?
2. What is the difference between structures and unions in C?
3. Basic concepts about data structures like trees, linked lists, circular lists, queues, arrays
4. Sorting Methodology (you may be asked to make an algorithm/program to implement a sort method).
5. What is an finite algorithm?
6. Basic concepts of Operating Systems such as multitasking, multithreading, real time systems, CPU scheduling algorithms, deadlocks, memory management etc.
7. Difference between one pass and multipass compilers, compilers and interpreters, parsing etc.

For Electronics and Communication Stream

For electronic students the important subjects are

- Digital Circuits and Logic Design
- Microprocessor Architecture of 8085
- Electronic Design and Circuits
- Communication and Networking

Some Commonly Asked Questions

1. Difference between a latch and a flip flop
2. What is sampling theorem and why is it needed
3. Internal architecture of 8085
4. Comparison between OpAmps and transistors
5. Modulation techniques (AM ,FM , PAM etc.)
6. Transistor biasing methods (fixed bias , emitter bias etc.)

HR Section

In your HR interview ie human resources interview the main effort on the part of the interviewer will be to bring forth your true personality. They may ask you some routine questions , few of which have been mentioned below, but be expecting questions of varied type regarding sexuality ,music , authors etc. ; anything to get to know what you really are.

Some Commonly Asked Questions

1. Describe yourself

- Gaonkar
- Barry B Brey
- Douglas V Hall
- Mathur

Automata & Compiler Design

- Aho & Ullman
- Hopcroft & Ullman

Computer Organisation & Hardware

- Hayes
- Hamascher
- Peter Norton's computer guides

For Electronics Students

Communication

- Kennedy
- Simon Haykins

Electronic Devices & Circuits

- Boylestead
- Millman & Halkias
- Mitchell et al.

Digital Circuits & Logic Designs

- Malvino & Leach
- Floyd
- Taub & Schilling

2. Why are you better than the next person
3. Your strengths and weakness and what you are doing to rectify your weaknesses
4. Information regarding what kind of work your parents do
5. The magazines and newspapers you read , their cost and at times their editors ; and that days headlines
6. You prefer a team sport to an individual sport
7. Why you want to join this particular company and not some other one.
8. What are your career objectives (long term and short term)
9. Why you plan to switch over to software field (for those who are from streams besides computers)

At the end of the interview they ask whether you have any questions to ask them. It is better to stick to one or two questions regarding the company and not dwell into how you performed or the pay package or any personal questions to the interviewer.

General Tips for the Interview

The Essentials

- a) Fundamental principles pertaining to his academics (most important)
- b) Essentials of past life and clear cut career objectives
- c) General awareness of world around him
- d) In depth knowledge of your extra curricular activities

Apart from these in general keep the following in mind

- Always remember its a sort of formal occassion and never get too informal , like accepting interviewers offer for a smoke or drink
- Smart and clean turnout. Neat clothes and polished shoes with tidy hair.
- Be cool and don't get nervous. Try to be pleasant , alert and maintain eye contact. If u cant hold your own in technical questions try to remain composed ;your confidence may do the trick.
- Try to maintain a good rapport with the interviewer and get him to ask questions regarding the subjects you are strong in.
- Maintain eye contact from the begining and dont act in a manner so that the interviewer is distracted which for example can be caused by flashy dresses ,exaggerated arm movements or you shifting in your chair.
- Give them the impression that you are going to stay with the company for atleast 3 to 5 years. Never mention anything concerning GRE or CAT .

Computer Networks

- Tanenbaum

Antennas & Propagation

- K D Prasad

Control Systems

- Ogata
- Kuo

Aptitude Section

- Aptitude Series by R S Aggarwal
- Barron's GRE and GMAT preparation books
- Shakuntla Devi's Puzzle books
- MBA entrance prep material
- Norman Lewis for Word Power
- George W Summers Brain Teasers

- Never try to bluff your way through an interview. The interviewers would be able catch on to it fast.



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interview
section

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It would be helpful to all fellow students seeking placements if you could send us sample question papers, paper patterns, information about the interview etc. of the companies that have been to your campus.

In our endeavour to provide you with the sample papers of the companies doing rounds of the various indian campuses, we expect to get full co-operation from your side without which this effort would not bear any fruit.

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About Us

home
company
index
interview
section
contribute
here
about
us

This site has been the endeavour of college students like yourself. We are 4 Comp Sci. guys and 2 ECE guys in our final year of engg. This is our effort to create a common platform for the college students in India. We would like to create an online community of students sharing their experiences of campus recruitments and placements with each other. This archive will also be a legacy for the fraternity of students planning to sit for placements in the future.

It is in your hands to keep this venture floating by providing us with active inputs from your colleges and campuses. We will constantly be updating the site with the help of your inputs and other useful information that we can lay our hands on.

If you are in need of any personal guidance, you are free to approach us with your problems and queries. We would also like to hear from other students who benefit from this site in any way -- the acknowledgement of our efforts in helping the student community is all the justification we need to keep pouring in our energies in maintaining this site.

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Group Discussion

[Home](#)[Back To Interview Section](#)

Many companies conduct group discussion after the written test so as to check on your interactive skills and how good you are at communicating with other people. The GD is to check how you behave, participate and contribute in a group, how much importance do you give to the group objective as well as your own, how well do you listen to viewpoints of others and how open-minded are you in accepting views contrary to your own. The aspects which make up a GD are verbal communication, non-verbal behaviour, conformation to norms, decision-making ability and cooperation. You should try to be as true as possible to these aspects.

General Tips

- A good level of general awareness will come in handy so that you aren't at a loss of words on certain issues.
- Understand the topic and analyse it mentally before speaking.
- Be clear about the purpose and content of your viewpoint.
- One should be able to communicate his views in an effective manner to everyone. Be clear in speech, audible but not too loud and above all remain confident.
- Remember the six C's of effective communication -- Clarity, Completeness, Conciseness, Confidence, Correctness and Courtesy.
- You should maintain eye contact with all others in the group and not focus on a particular person for he may benefit from that.
- Be responsive to ideas from other people and seem to be very receptive and open-minded but don't allow others to change your own viewpoint..
- Starting the discussion is considered to be good however it isn't that important; what is important is that you speak for a period long enough for you to be able to communicate your viewpoint .
- Always maintain your calm and never get aggressive. If you haven't been able to talk then one can cut in saying "Excuse me, but what I think is" or something of that sort.
- Never lose your temper and never attack anyone on a personal front. Your attitude should be one of cooperation and not one of conflict.
- Don't lose sight of the goal of the discussion.
- Listen to any criticisms and give them a thought before trying to defend your views.

[Back to top](#)

Aditi Technologies

[Home](#)

[Sample Test Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The Aditi Technology paper consists of three sections. The paper has **negative marking**. Each correct answer carries one mark and half a mark is deducted for every wrong answer. The first section is an **aptitude section** with **50 questions** to be done in **50 minutes**. The second section is a **computer knowledge section** with questions based on **operating systems, computer architecture** etc. This section has **15 questions** to be done in **15 minutes**. The last section is a **C test** with **15 questions** and a time limit of **15 minutes**. The company has a cutoff of around **60%**.

The following sample paper is available:

[Click here to view the sample paper](#)

[Back To The Top](#)

• Interview

The test is followed by a Technical and a HR interview. The technical interview is highly specialised and covers almost all subjects you have done in your curriculum. Some puzzles may also be asked in the interview. Special emphasis is laid on C and Data Structures. For details on the frequently asked questions please refer to our [Interview section](#).

This is followed by an HR interview. For more details refer to our [Interview section](#).

[Back To The Top](#)

• Profile

Aditi Technologies is a privately held international corporation, providing cutting-edge **eBusiness solutions** and custom **software** for an international client list that includes **Microsoft, Pivotal** and **Spacelabs**. They work in the enterprise solution providing and have a respectable standing in the fields of eStarter and eBusiness solutions.

Founded in 1994, Aditi Technologies employs more than 450 personnel presently. It has offices in Seattle, Washington and Bangalore, India.

For more information about this company visit their homesite at www.aditi.com

[Back To The Top](#)

SECTION 1-APTITUDE

Directions for question 1-10: Each question comprises four scattered segments of a sentence. Identify from among the four choices the sequences that correctly assembles the segments and completes the sentence.

1. A. Anniversaries can be dicey things.
B. As long as the dead are being commemorated on a particular day, it is fine.
C. The opposition could keep its gun powder dry and ready as well.
D. But when it comes to a government celebrating a year or two in office, there can be trouble.

(a) DACB
(b) CADB
(c) ABDC
(d) BCDA
2. A. It is less concerned with telling a tale.
B. As with so much Huxley's later fiction, one is not sure whether or not to call this book a true novel.
C. It is also weak on characterization but strong on talk.
D. Than with presenting an attitude of life.

(a) CBDA
(b) BADC
(c) ABDC
(d) DCBA
3. A. While the above is true for private sector companies, it is not so in the public limited companies.
B. But with the removal of control over premia, the premia at which issues are marked has gone up quite sharply.
C. So the cost of capital at even a lower debt equity ratio comes out lower.
D. Traditionally, the cost of equity is higher than the cost of debt.

(a) DBCA
(b) BADC
(c) ACDB

(d) CDAB

4. A. Compiling and debugging.
B. Testing.
C. Writing the code.
D. Thinking of the algorithm.
E. Understanding the problem

(a) DBECA

(b) CDABE

(c) ACDBE

(d) EDCAB

5. A. Such alliances are shaky from the start.
B. In this manner parties which are not able to get a mandate from the electorate are able to come to power.
C. We have seen the unique spectacle of political forming alliance just to form a government.
D. Indian democracy continues to amaze.

(a) ADBC

(b) BADC

(c) DCBA

(d) BDCA

6. A. They are the three faces of dysphoria - bad feeling.
B. Anxiety, Depression and Anger.
C. When the three combine and get out of control, we get what is called mental illness.
D. All of us experience three emotions almost daily.

(a) ACDB

(b) CBDA

(c) CADB

(d) DBAC

7. A. This is the key to tap the creative power inside us.
B. It is difficult to control our thinking and feelings.
C. That is, unless we work at it consciously and persistently.
D. We are influenced and limited by attitudes, prejudices by other individuals and by external conditions to such an extent that few can control mental and emotional processes.

(a) ACDB

- (b) BDCA
- (c) CADB
- (d) DBAC

8. A. Two vital facts must be understood.
B. The subconscious mind has the power to create.
C. The second is that it obeys the orders given to it by the conscious mind.
D. Its function is to bring to full expression whatever is desired by the conscious mind.

- (a) ABCD
- (b) CBDA
- (c) ADBC
- (d) DBAC

9. A. But what is not often understood is that this flash is outcome of long periods of incubation.
B. The layman thinks that it is a spell of divine flash which illuminates the dark and the hidden.
C. True, it does.
D. Inspiration is much misunderstood term.

- (a) DBAC
- (b) ACBD
- (c) DBCA
- (d) CADB

10. A. As a result, the world has undergone a transformation.
B. Science and civilization have made rapid strides especially in recent times.
C. This constitutes the basic factor in the use of productive resources.
D. But behind all the progress of mankind is the human factor which is invaluable and irreplaceable.

- (a) ABDC
- (b) BADC
- (c) DCAB
- (d) CBDA

Directions for questions 11-20: Each problem contains a question and two statements giving certain data. You have to select the correct answer from (a) to (d) depending on the sufficiency of the data given in the statements to answer the question. Mark your answer as

- (a) If statement (I) alone is sufficient.
- (b) If statement (II) alone is sufficient.
- (c) If both (I) and (II) together are sufficient but neither of statements alone is sufficient.

- (d) Either of the statements (I) and (II) is sufficient.
- (e) If statements (I) and (II) together are not sufficient.

11. What is the distance from City A to City C in kms?

- (I) City A is 90 kms from City B.
- (II) City B is 30 kms from City C.

12. Is z less than w ? z and w are real numbers.

- (I) $z^2 = 25$
- (II) $w = 9$

13. The value of an estate in January 1905 started gradually declining in such a way that at the end of each year it was worth only x times its value at the beginning of the year. What was its worth in end December 1910 ?

- (I) It was worth Rs.10,109 in the end of December 1906.
- (II) It was worth Rs.12,345 in the beginning of January 1905.

14. In an election, 3 candidates A,B and C were representing for a membership of parliament. How many votes did each receive?

- (I) A received 1006 votes more than B and 1213 more votes than C.
- (II) Total votes cast were 15,414.

15. John studies Chinese in a school. Which school does he attend?

- (I) All students in Jefferson High school take French.
- (II) Maysville High School offers only Chinese.

16. How many girls passed the entrance exam this year?

- (I) Last year 560 girls passed
- (II) This year there was a 10% decrease over last year in the number of failures.

17. What is Raju's age?

- (I) Raju, Vimala and Kishore are all of the same age.
- (II) Total age of Vimala, Kishore and Abishek is 32 and Abishek is as old as Vimala and Kishore together.

18. Is Sreedhar eligible for an entry pass to the company premises?

- (I) The company does not allow strangers to enter the company.
- (II) All employees are eligible to get a pass.

19. Among five friends who is the tallest?

(I) D is taller than A and C.

(II) B is shorter than E but taller than D.

20. Can a democratic system operate without effective opposition?

(I) The opposition is indispensable.

(II) A good statesman always learns more from his opponents than from his fervent supporters.

Directions for question 1-2 : Answer the questions based on the passage above them

A temple has 3 gateways, each of them is leading you into the temple, and at the end of each gateway there is an idol and as a devotee passes through the gateway with some flowers the number of flowers double. Ram enters the 1st gateway with some flowers and he puts same number of flowers at each idol and the end he is left with none.

21. How many flowers did Ram start with?

(a) 4

(b) 5

(c) 3

(d) 7

22. How many flowers does he put at each idol?

(a) 10

(b) 8

(c) 6

(d) 5

Directions for question 3-5 : Answer the questions based on the passage above them

Liz, Jenni, Jolie and Rick have an English final on Friday and they all would like to study together at least once before the test.

Liz can study only on Monday, Tuesday and Wednesday nights and Thursday afternoon and night.

Jenni can study only on Monday, Wednesday and Thursday nights and Tuesday afternoon and night.

Jolie can study only on Wednesday and Thursday nights, Tuesday afternoon and Monday afternoon and night.

Rick can study the afternoons and nights of Tuesday, Wednesday and Thursday, and on Monday afternoon.

23. If the group is to study twice, then the days could be
- (a) Monday and Wednesday
 - (b) Tuesday and Thursday
 - (c) Wednesday and Thursday
 - (d) Monday and Friday
 - (e) Tuesday and Wednesday
24. If three of them tried to study together when all four couldn't
- (a) this would be possible twice
 - (b) it would have to be on Wednesday night
 - (c) Rick could not attend the three person groups
 - (d) This could be accomplished on Monday and Tuesday only
 - (e) This would not be possible
25. If Liz decided to study every night,
- (a) she would never be able to study with Rick
 - (b) she would never be able to study with Jolie
 - (c) she would have at least two study partners each night
 - (d) she would have to study alone on Monday night
 - (e) she would study with only Jenni on Thursday night

SECTION 2-COMPUTER AWARENESS (15 questions)

NOTE: The questions are of multiple choice format in the paper

1. What is the number of functions of a three variable boolean function?
2. Which is the most commonly used replacement algorithm?
Ans. LRU
3. Which memory management technique involves dividing the memory into fixed sized blocks?
Ans. Paging
4. What is video resolution ?
5. The processing speed of a microprocessor depends on _____?
Ans. data bus width

SECTION 3: C TEST

NOTE: The questions are of multiple choice format in the paper

1. What is the output of the program given below

```
#include<stdio.h>
main()
{
    char i=0;
    for(;i>=0;i++) ;
    printf("%d\n",i);
}
```

2. What is the output of the following program

```
#include<stdio.h>
main()
{
    int i=0;
    fork();
    printf("%d",i++);
    fork();
    printf("%d",i++);
    fork();
    wait();
}
```

3. What is the memory allocated by the following definition ?

```
int (*x)[10];
```

4. What is the memory allocated by the following definition ?

```
int (*x)();
```

5. In the following program segment

```
#include<stdio.h>
main()
{
```

```

int a=2;
int b=9;
int c=1;
while(b)
{
    if(odd(b))
        c=c*a;
    a=a*a;
    b=b/2;
}
printf("%d\n",c);
}

```

How many times is $c=c*a$ calculated?

6. In the program segment in question 5 what is the value of a at the end of the while loop?

7. What is the output for the program given below

```

typedef enum grade{ GOOD,BAD,WORST,}BAD;
main()
{
    BAD g1;
    g1=1;
    printf("%d",g1);
}

```

8. Give the output for the following program.

```

#define STYLE1 char
main()
{
    typedef char STYLE2;
    STYLE1 x;
    STYLE2 y;
    clrscr();
    x=255;
    y=255;
    printf("%d %d\n",x,y);
}

```

9. Give the output for the following program segment.

```
#ifdef TRUE
int I=0;
#endif

main()
{
int j=0;
printf("%d %d\n",i,j);
}
```

10. In the following program

```
#include<stdio.h>
main()
{
char *pDestn,*pSource="I Love You Daddy";
pDestn=malloc(strlen(pSource));
strcpy(pDestn,pSource);
printf("%s",pDestn);
free(pDestn);
}
```

- (a)Free() fails
- (b)Strcpy() fails
- (c)prints I love You Daddy
- (d)error

11. What is the output for the following program

```
#include<stdio.h>
main()
{
char a[5][5],flag;
a[0][0]='A';
flag=((a==*a)&&(*a==a[0]));
printf("%d\n",flag);
}
```

[Back to top](#)

Axes Technologies(I)

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• About the Written Test

The written test is purely technical with stress on Networking, C, Operating Systems, Data Structures etc. You should be clear with the fundamentals of these and other core subjects. Questions are mainly multiple-choice though this may vary.

[Click here to see the sample test.](#)

• About the Interview

The information on the interview is pretty sketchy but it may consist of both technical grilling and HR interview. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile of the Company

Axes Technologies(I) Pvt. Ltd. is a subsidiary of Axes Technologies Inc, Dallas, **USA** and was set up in **1995** in **Bangalore**. The **Chennai** center came up in **1997** and a **second center** was established in **Bangalore** in 1998.

Axes specializes in the development of **telecom software**. Axes has developed high quality software for **Long Distance Tandem** and **Mobile Switches**. Axes has state-of-the-art infrastructure and computing environment at its facilities spread over **50,000 sq.ft**. Over **275** talented software professionals work here. Axes is a **100% export oriented unit** - set up under the umbrella of **Software Technology Park (STP)** of the Government of India.

Axes products are currently being used by **leading telecom companies** all over the world. Axes is executing projects in the areas of **Tandem Switches, Cellular Switches, STP, Network Management, AIN Peripherals** and **Digital Loop Carrier Systems**. The Bangalore center has been certified for **ISO 9001** by Underwriters Laboratories Inc., and is working towards achieving **SEI CMM level 4**.

For **more information** about this company visit their homesite at www.axespeople.com

[Back To The Top](#)

1. A 2MB PCM(pulse code modulation) has

- a) 32 channels
- b) 30 voice channels & 1 signalling channel.
- c) 31 voice channels & 1 signalling channel.
- d) 32 channels out of which 30 voice channels, 1 signalling channel, & 1 Synchronizatio channel.

Ans: (c)

2. Time taken for 1 satellite hop in voice communication is

- a) 1/2 second
- b) 1 seconds
- c) 4 seconds
- d) 2 seconds

Ans: (a)

3. Max number of satellite hops allowed in voice communication is :

- a) only one
- b) more han one
- c) two hops
- d) four hops

Ans: (c)

4. What is the max. decimal number that can be accomodated in a byte.

- a) 128
- b) 256
- c) 255
- d) 512

Ans: (c)

5. Conditional results after execution of an instruction in a micro processor is stored in

- a) register
- b) accumulator
- c) flag register
- d) flag register part of PSW(Program Status Word)

Ans: (d)

6. Frequency at which VOICE is sampled is

- a) 4 Khz
- b) 8 Khz
- c) 16 Khz
- d) 64 Khz

Ans: (a)

7. Line of Sight is

- a) Straight Line
- b) Parabolic
- c) Tx & Rx should be visible to each other
- d) none

Ans: (c)

8. Purpose of PC(Program Counter) in a MicroProcessor is

- a) To store address of TOS(Top Of Stack)
- b) To store address of next instruction to be executed.
- c) count the number of instructions.
- d) to store base address of the stack.

Ans: (b)

9. What action is taken when the processor under execution is interrupted by a non-maskable interrupt?

- a) Processor serves the interrupt request after completing the execution of the current instruction.
- b) Processor serves the interrupt request after completing the current task.
- c) Processor serves the interrupt request immediately.
- d) Processor serving the interrupt request depends upon the priority of the current task under execution.

Ans: (a)

10. The status of the Kernel is

- a) task
- b) process
- c) not defined.
- d) none of the above.

Ans: (b)

11 What is the nominal voltage required in subscriber loop connected to local exchange?

- a) +48 volts
- b) -48 volts
- c) 230 volts
- d) 110 volts

12. To send a data packet using datagram , connection will be established

- a) before data transmission.
- b) connection is not established before data transmission.
- c) no connection is required.
- d) none of the above.

Ans: (c)

13. Word alignment is

- a) aligning the address to the next word boundary of the machine.
- b) aligning to even boundary.
- c) aligning to word boundary.
- d) none of the above.

Ans: (a)

14 When a 'C' function call is made, the order in which parameters passed to the function are pushed into the stack is

- a) left to right
- b) right to left
- c) bigger variables are moved first than the smaller variables.
- d) smaller variables are moved first than the bigger ones.
- e) none of the above.

Ans: (b)

15 What is the type of signalling used between two exchanges?

- a) inband
- b) common channel signalling
- c) any of the above
- d) none of the above.

Ans: (a)

16. Buffering is

- a) the process of temporarily storing the data to allow for small variation in device speeds
- b) a method to reduce cross talks
- c) storage of data within transmitting medium until the receiver is ready to receive.
- d) a method to reduce routing overhead.

Ans: (a)

17. A protocol is a set of rules governing a time sequence of events that must take place between

- a) peers
- b) non-peers
- c) allocated on stack
- d) assigned to registers.

18. Memory allocation of variables declared in a program is

- a) allocated in RAM.
- b) allocated in ROM.
- c) allocated on stack.
- d) assigned to registers.

Ans: (c)

19. A software that allows a personal computer to pretend as a computer terminal is

- a) terminal adapter
- b) bulletin board
- c) modem
- d) terminal emulation

Ans: (d)

The following questions (Q20-Q33) are of a slightly different pattern than those above and may also be asked:

20. Find the output of the following program

```
int *p,*q;  
p=(int *)1000;  
q=(int *)2000;  
printf("%d",(q-p));
```

Ans: 500

21. What does the statement `int(*x[])()` indicate?

22. Which addressing mode is used in the following statements:

- (a) `MVI B,55`
- (b) `MOV B,A`

(c) MOV M,A

Ans. (a) Immediate addressing mode.
(b) Register Addressing Mode
(c) Direct addressing mode

23. RS-232C standard is used in _____.

Ans. Serial I/O

24. How are parameters passed to the main function?

25. What does the file stdio.h contain?

- a) function definition
- b) function declaration
- c) both func. defn & func. declaration.

26. scanf is used for ?

27. Memory Management in Operating Systems is done by

- a) Memory Management Unit
- b) Memory management software of the Operating System
- c) Kernel

Ans: (b)

28. What does the statement strcat(S2,S1) do?

29. TCP(Transmission Control Protocol) is Connection Oriented and used in _____ layer?

30. IP(Internet Protocol) is connectionless and used in _____ layer?

31. For LAN Network layer is not required. Why?

32. What is done for a Push operation?

Ans: SP is decremented and then the value is stored.

33. Describe the following structures as LIFO/FILO/FIFO/LILO

(a) Stack

(b) Queue

[Back to top](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of **4 sections out of which one has to do 3 sections.**

These sections are broadly divided into:Aptitude,C,C++ and Java.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The information on the interview is from the horse's mouth, but it consists mainly of technical grilling.A lot of stress is laid on Data Structures, C and C++.

Some the questions that could be asked in the technical interview are:

What is public,protected,private?

What are virtual functions?

What is friend function?

What is a scope resolution operator?

What does static variable mean?

Write a program to compare two strings without using the stringcomp function .

Write a program to concatenate two strings.

We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

Aztec Systems is a full Web Production service organization providing a wide range of products.

Incorporated in 1994, Aztec Systems Corporation, located in Annapolis, MD, was established to provide a quality World Wide Web service. Since that time, Aztec has developed Website applications ranging from on-line catalogs and trade show presentations to newsletters and product directories.

[Back To The Top](#)

Aztec Sample Test Paper

[Home](#)
[Back To Aztec Page](#)

Section A

*The following questions are taken from the book--**Puzzles & Teasers by George J. Summers**. We have provided you with a few questions so that you get a clear idea of the pattern.*

1. One of the following is my secret word: AIM DUE MOD OAT TIE. With the list in front of you, if I were to tell you any one of my secret word, then you would be able to tell me the number of vowels in my secret word. Which is my secret word?

Ans. TIE

2. In the following figure: A B C

D
E F G
H
I

Each of the digits 1, 2, 3, 4, 5, 6, 7, 8, and 9 is:

- a) Represented by a different letter in the figure above.
- b) Positioned in the figure above so that each of $A + B + C$, $C + D + E$, $E + F + G$, and $G + H + I$ is equal to 13.

Which digit does E represent?

Ans. E is 4

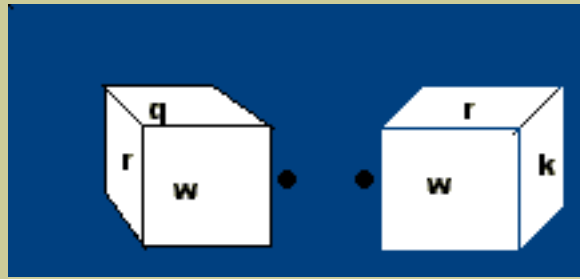
3. One of Mr. Horton, his wife, their son, and Mr. Horton's mother is a doctor and another is a lawyer.

- a) If the doctor is younger than the lawyer, then the doctor and the lawyer are not blood relatives.
- b) If the doctor is a woman, then the doctor and the lawyer are blood relatives.
- c) If the lawyer is a man, then the doctor is a man.

Whose occupation you know?

Ans. Mr. Horton: he is the doctor.

4. Here is a picture of two cubes:



a)The two cubes are exactly alike.

b)The hidden faces indicated by the dots have the same alphabet on them.

Which alphabet-q, r, w, or k is on the faces indicated by the dots?

Ans.q

5.In the following figure:

A		D
B	G	E
C		F

Each of the seven digits from 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 is:

a)Represented by a different letter in the figure above.

b)Positioned in the figure above so that $A*B*C$, $B*G*E$, and $D*E*F$ are equal.

Which digit does G represent?

Ans.G represents the digit 2.

6.Mr. and Mrs. Aye and Mr. and Mrs. Bee competed in a chess tournament.Of the three games played:

a)In only the first game werethe two players married to each other.

b)The men won two games and the women won one game.

c)The Ayes won more games than the Bees.

d)Anyone who lost game did not play the subsequent game.

Who did not lose a game?

Ans.Mrs.Bee did not lose a game.

7.Three piles of chips--pile I consists one chip, pile II consists of chips, and pile III consists of three chips--are to be used in game played by Anita and Brinda.The game requires:

a)That each player in turn take only one chip or all chips from just one pile.

b)That the player who has to take the last chip loses.

c)That Anita now have her turn.

From which pile should Anita draw in order to win?

Ans.Pile II

8.Of Abdul, Binoy, and Chandini:

- a)Each member belongs to the Tee family whose members always tell the truth or to the El family whose members always lie.
- b)Abdul says "Either I belong or Binoy belongs to a different family from the other two."
Whose family do you name of?

Ans.Binoy's family--El.

Section B

C programs are asked in this section

- 1.Write a program to insert a node in a sorted linked list.
- 2.Write a program to implement the Fibonacci series.
- 3.Write a program to concatenate two circular linked lists into a single circular list.
- 4.A function even_odd_difference()passes the array of elements.Write a program to calculate the difference of the two sums of which one sum adds the elements of odd ones and another adds the elements of even ones.
- 5.Write a program to reverse a linked list.

Section C

Questions on C++ are asked here

Base class has some virtual method and derived class has a method with the same name. If we initialize the base class pointer with derived object,.calling of that virtual method will result in which method being called?

- a. Base method
- b. Derived method..

Ans. b

Almost all questions are of this kind. Go through virtual functions concepts in C++ and how the pointers to functions would be handled.

[Back to top](#)

[Sample Paper](#)[Interview](#)[Profile of the company](#)

• Written Test

The Paper is of two parts : **Aptitude and Technical** .

The **Aptitude paper** is based on the GRE pattern and consists of analogies, reading comprehension, passages etc. There is more than one paper pattern and the other patterns may have questions on series and logical reasoning.

The **Technical paper** is same for all patterns .The important subjects are computer architecture , operating systems , microprocessors , C etc.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it may consist of both technical grilling and HR interview. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

Since 1978 Baan has forged its position as a leading developer of innovative, integrated enterprise solutions. Baan is part of Invensys plc's \$2.5 billion turnover Invensys Software & Systems (ISS) Division - a global leader in the provision of manufacturing solutions.

For more information about this company visit their homesite at www.baan.com

[Back To The Top](#)

BAAN Sample Test

[Home](#)

[Back To BAAN Page](#)

Paper Pattern 1 from R.S.Agarwal

Please check out the following questions from the book

Section 1 -- Analogy 1c(1-20)[pg 15-17]

Section 2 -- Directions sense test 7b[1-10]

Section 3 -- Logic deduction 17b[30-50]

Section 4 -- Mathematical modeling 15a[1-20]

Paper Pattern 2

Q1.

For a motorist there are three ways going from City A to City C. By way of bridge the distance is 20 miles and toll is \$0.75. A tunnel between the two cities is a distance of 10 miles and toll is \$1.00 for the vehicle and driver and \$0.10 for each passenger. A two-lane highway without toll goes east for 30 miles to city B and then 20 miles in a northwest direction to City C.

1. Which is the shortest route from B to C

- (a) Directly on toll free highway to City C
- (b) The bridge
- (c) The Tunnel
- (d) The bridge or the tunnel
- (e) The bridge only if traffic is heavy on the toll free highway

Ans. (a)

2. The most economical way of going from City A to City B, in terms of toll and distance is to use the

- (a) tunnel
- (b) bridge
- (c) bridge or tunnel
- (d) toll free highway
- (e) bridge and highway

Ans. (a)

3. Jim usually drives alone from City C to City A every working day. His firm deducts a percentage of employee pay for lateness. Which factor would most influence his choice of the bridge or the tunnel ?

- (a) Whether his wife goes with him
- (b) scenic beauty on the route
- (c) Traffic conditions on the road, bridge and tunnel
- (d) saving \$0.25 in tolls
- (e) price of gasoline consumed in covering additional 10 miles on the bridge

Ans. (a)

4. In choosing between the use of the bridge and the tunnel the chief factor(s) would be:

I. Traffic and road conditions

II. Number of passengers in the car

III. Location of one's homes in the center or outskirts of one of the cities

IV. Desire to save \$0.25

- (a) I only
- (b) II only
- (c) II and III only
- (d) III and IV only
- (e) I and II only

Ans. (a)

Q2.

The letters A, B, C, D, E, F and G, not necessarily in that order, stand for seven consecutive integers from 1 to 10

D is 3 less than A

B is the middle term

F is as much less than B as C is greater than D

G is greater than F

1. The fifth integer is

- (a) A
- (b) C
- (c) D
- (d) E
- (e) F

Ans. (a)

2. A is as much greater than F as which integer is less than G

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Ans. (a)

3. If $A = 7$, the sum of E and G is

- (a) 8
- (b) 10
- (c) 12
- (d) 14
- (e) 16

Ans. (a)

4. $A - F = ?$

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) Cannot be determined

Ans. (a)

5. An integer T is as much greater than C as C is greater than E. T can be written as $A + E$. What is D?

- (a) 2
- (b) 3
- (c) 4
- (d) 5
- (e) Cannot be determined

Ans. (a)

6. The greatest possible value of C is how much greater than the smallest possible value of D?

- (a) 2

- (b) 3
- (c) 4
- (d) 5
- (e) 6

Ans. (a)

Q3.

1. All G's are H's
2. All G's are J's or K's
3. All J's and K's are G's
4. All L's are K's
5. All N's are M's
6. No M's are G's

1. If no P's are K's, which of the following must be true?

- (a) All P's are J's
- (b) No P is a G
- (c) No P is an H
- (d) If any P is an H it is a G
- (e) If any P is a G it is a J

Ans. (a)

2. Which of the following can be logically deduced from the conditions stated?

- (a) No M's are H's
- (b) No M's that are not N's are H's
- (c) No H's are M's
- (d) Some M's are H's
- (e) All M's are H's

Ans. (a)

3. Which of the following is inconsistent with one or more of the conditions?

- (a) All H's are G's
- (b) All H's that are not G's are M's
- (c) Some H's are both M's and G's
- (d) No M's are H's

(e) All M's are H's

Ans. (a)

4. The statement "No L's are J's" is

I. Logically deducible from the conditions stated

II. Consistent with but not deducible from the conditions stated

III. Deducible from the stated conditions together with the additional statement "No J's are K's"

(a) I only

(b) II only

(c) III only

(d) II and III only

(e) Neither I, II nor III

Ans. (a)

Q5.

In country X, democratic, conservative and justice parties have fought three civil wars in twenty years. TO restore stability an agreement is reached to rotate the top offices President, Prime Minister and Army Chief among the parties so that each party controls one and only one office at all times. The three top office holders must each have two deputies, one from each of the other parties. Each deputy must choose a staff composed of equally members of his or her chiefs party and member of the third party.

1. When Justice party holds one of the top offices, which of the following cannot be true

(a) Some of the staff members within that office are justice party members

(b) Some of the staff members within that office are democratic party members

(c) Two of the deputies within the other offices are justice party members

(d) Two of the deputies within the other offices are conservative party members

(e) Some of the staff members within the other offices are justice party members.

Ans. (a)

2. When the democratic party holds presidency, the staff of the prime minister's deputies are composed

I. One-fourth of democratic party members

II. One-half of justice party members and one-fourth of conservative party members

III. One-half of conservative party members and one-fourth of justice party members.

(a) I only

(b) I and II only

- (c) II or III but not both
- (d) I and II or I and III
- (e) None of these

Ans. (a)

3. Which of the following is allowable under the rules as stated:

- (a) More than half of the staff within a given office belonging to a single party
- (b) Half of the staff within a given office belonging to a single party
- (c) Any person having a member of the same party as his or her immediate superior
- (d) Half the total number of staff members in all three offices belonging to a single party
- (e) Half the staff members in a given office belonging to parties different from the party of the top office holder in that office.

Ans. (a)

4. The office of the Army Chief passes from Conservative to Justice party. Which of the following must be fired.

- (a) The democratic deputy and all staff members belonging to Justice party
- (b) Justice party deputy and all his or hers staff members
- (c) Justice party deputy and half of his Conservative staff members in the chief of staff office
- (d) The Conservative deputy and all of his or her staff members belonging to Conservative party
- (e) No deputies and all staff members belonging to conservative parties.

Ans. (a)

Q6.

In recommendations to the board of trustees a tuition increase of \$500 per year, the president of the university said "There were no student demonstrations over the previous increases of \$300 last year and \$200 the year before". If the president's statement is accurate then which of the following can be validly inferred from the information given:

- I. Most students in previous years felt that the increases were justified because of increased operating costs.
- II. Student apathy was responsible for the failure of students to protest the previous tuition increases.
- III. Students are not likely to demonstrate over new tuition increases.

- (a) I only
- (b) II only
- (c) I or II but not both

- (d) I, II and III
- (e) None

Ans. (a)

Part II -- Problems on ages (Simple Linear Equations etc.)

Part III -- Blood Relations (Check R S Aggarwal)

Part IV -- Series problems

6,9,14,21,(30)
2,10,(30),68,130,(222)
9,15,23,33,(45)
5,11,19,29,(41),55
2,12,30,56,90,(132)
1,3,7,(15)31
3,9,21,(45),93
35,24,15,8,(3)
2,12,30,56,90,(132)
3,11,19,29,(39),51

Part V -- Analogy

1. fans : bleachers::

- (a) cheerleaders : pompoms
- (b) audience:seats
- (c) team:goalposts
- (d) conductor:podium
- (e) referee:decision

Ans. (a)

2. archipelago:islands::

- (a) arbor:bower
- (b) garden:flower
- (c) mountain:valley
- (d) sand:dune
- (e) constellation:star

Ans. (a)

3. crow:boastful ::

- (a) smirk:witty
- (b) conceal:sly
- (c) pout:sulky
- (d) blush:coarse
- (e) bluster:unhappy

Ans. (a)

4. bracket:shelf ::

- (a) hammer:anvil
- (b) girder:rivet
- (c) strut:rafter
- (d) valve:pipe
- (e) bucket:well

Ans. (a)

5. taxonomy:classification ::

- (a) etymology:derivation
- (b) autonomy:authorization
- (c) economy:rationalization
- (d) tautology:justification
- (e) ecology:urbanisation

Ans. (a)

6. moderator:debate ::

- (a) legislator:election
- (b) chef:banquet
- (c) auditor:lecture
- (d) conspirator:plot
- (e) umpire:game

Ans. (a)

7. glossary:words ::

- (a) catalogue:dates
- (b) atlas:maps
- (c) almanac:synonyms
- (d) thesaurus:rhymes
- (e) lexicon:numbers

Ans. (a)

8. lumber: bear ::

- (a) roost:hen
- (b) bray:donkey
- (c) waddle:goose
- (d) swoop:hawk
- (e) chirp:sparrow

Ans. (a)

9. celerity:snail ::

- (a) indolence:sloth
- (b) cunning:weasel
- (c) curiosity:cat
- (d) humility:peacock
- (e) obstinacy:mule

Ans. (a)

10. wood:sand ::

- (a) coal:burn
- (b) brick:lay
- (c) oil:polish
- (d) metal:burnish
- (e) stone:quarry

Ans. (a)

11. carpenter:saw ::

- (a) stenographer:typist
- (b) painter:brush
- (c) lawyer:brief
- (d) runner:sneakers
- (e) seamstress:scissors

Ans. (a)

12. horns:bull ::

- (a) mane:lion
- (b) wattles:turkey
- (c) antlers:stag
- (d) hooves:horse
- (e) wings:eagle

Ans. (a)

13. gullible:duped ::

- (a) credible:cheated
- (b) careful:cautioned
- (c) malleable:moulded
- (d) myopic:mislead
- (e) articulate:silenced

Ans. (a)

14. marathon:stamina ::

- (a) relay:independence
- (b) hurdle:perseverance
- (c) sprint:celerity
- (d) job:weariness
- (e) ramble:directness

Ans. (a)

15. Skin:man ::

- (a) hide:animal
- (b) jump:start
- (c) peel:potato
- (d) eat:food
- (e) wool:cloth

Ans. (a)

16. Bamboo:Shoot ::

- (a) Bean:Sprout
- (b) Peas:Pod
- (c) Potato:Eye
- (d) Carrot:Root
- (e) Leaf:Stem

Ans. (a)

18. Deflect:Missile ::

- (a) Siege:Castle
- (b) Distract:Attraction
- (c) Protect:Honour
- (d) Drop:Catch
- (e) Score:Goal

Ans. (a)

19. Editor:magazine ::

- (a) captain:ship
- (b) actor:movie
- (c) director:film
- (d) player:team
- (e) jockey:horse

Ans. (a)

21. Volcano : Lava ::

- (a) Fault:earthquake
- (b) crack:wall

- (c) tunnel:dig
- (d) water:swim
- (e) floor:polish

Ans. (a)

Other Sample Analogies:

- 22. Agitator : Firebrand :: **Renegade : Turncoat**
- 23. Burst : Sound :: **Tinder : Fire**
- 24. Star : cluster :: **Tree : clump**
- 25. Piston : Cylinder :: **elevator : shaft**
- 26. Mitigate : punishment :: **commute : sentence**
- 27. Erudite : scholar :: **illiterate : ignorant**
- 28. Fire : Ashes :: **explosion : debris**
- 29. mason : wall :: **Author : Book**
- 30. Fire : Ashes :: **Event : memories**

SECTION II CODING

- 1. If LOAD = MPBE and DRIVE = ESJWF
Then LADDLER = ?

Ans. MBEEMFS

- 2. START = WALKA and BUDPI = XZFMR
Then STUPID = ?

Ans. WAZMRF

Q3 - Q7

If A=Z, B=Y, C=X, Z=A
Then

3. LIMIT = ?

Ans. ORNRG

4. SOUR = ?

Ans. HLFJ

5. POCKET = ?

Ans. KLXPUG

6. GROUP = ?

Ans. TILFK

7. ZERD = ?

Ans. AVIL

Q8 - Q9

Here each letter is coded as

A = D, B=E, C=F

8. SHOOT = ?

Ans. VKRRW

9. VWDUW = ?

Ans. YZGXZ

10. If DBMDVUUB = CALCUTTA

Then BOMBAY = ?

Ans. ANLAZX

TECHNICAL :

1. Binary equivalent of 52

Ans. 110100

2. Hexadecimal equivalent of 3452

Ans. 72A

3. Explain Just In Time Concept ?

Ans. Elimination of waste by purchasing manufacturing exactly when needed

4. A good way of unit testing s/w program is

Ans. User test

5. A lowest level of security by most RDBMS is

6. OOT uses

Ans. Encapsulated of detect methods

7.EDI useful in

Ans. Electronic Transmission

8. MRPII different from MRP

Ans. Modular version of man redundant initials

9. Hard disk time for R/W head to move to correct sector

Ans. Latency Time

10. The percentage of times a page number bound in associate register is called

Ans. Bit ratio

11. Expand MODEM

Ans. Modulator and Demodulator

12. RDBMS file system can be defined as

Ans. Interrelated

13. Super Key is

Ans. Primary key and Attribute

14. Windows 95 supports

- (a) Multiuser
- (b) n tasks
- (c) Both
- (d) None

Ans. (a)

15. The difference between printf and fprintf is ?

16. To change permission r&w to owner group to no permission to others

- (a) chmod 614
- (b) chmod 604
- (c) chmod 640
- (d) chmod 310

Other important topics

Pipeline Architecture

LAPB protocol

[Back to top](#)

Mphasis-BFL Software

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of the following sections:

1. **Computer Awareness Section** -- Consists of 45 questions of MCQ type. There is negative marking of one-fourth mark. A correct answer is worth one mark.
2. **Quantitative Section** -- Consists of 20 questions of MCQ type. There is negative marking of one-fourth mark. A correct answer is worth one mark. It is advisable to refer Baron's GRE Guide for this section.
3. **Analytical Ability Section** -- Consists of 20 questions of MCQ type. There is negative marking of one-fourth mark. A correct answer is worth one mark. It is advisable to refer Baron's GRE Guide for this section.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

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[Back To The Top](#)

• Profile

Prior to the merger, Mphasis was a California based firm working on their e-Business initiatives. BFL Software was a development house leveraging the Indian offshore model. The **Mphasis-BFL** combine works towards helping migration towards e-Business through optimization of legacy systems. With **18** offices worldwide, it has emerged as a global player in the IT industry. They have offices in **Bangalore, Pune** and **Mumbai** in India. Their worldwide offices are spread among **North America, Europe, Australia** and **Singapore**.

For more information about this company visit their homesite at www.mphasis.com

[Back To The Top](#)

BFL Sample Test Paper

[Home](#)

[Back To BFL Page](#)

COMPUTER AWARENESS TEST

1.In the command scanf, h is used for

Ans. Short int

2.A process is defined as

Ans. Program in execution

3.A thread is

Ans. Detachable unit of executable code)

4.What is the advantage of Win NT over Win 95

Ans. Robust and secure

5.How is memory management done in Win95

Ans. Through paging and segmentation

6.What is meant by polymorphism

Ans. Redfinition of a base class method in a derived class

7.What is the essential feature of inheritance

Ans. All properties of existing class are derived

8.What does the protocol FTP do

Ans. Transfer a file b/w stations with user authentication

9. In the transport layer, TCP is what type of protocol

Ans. Connection oriented

10. Why is a gateway used

Ans. To connect incompatible networks

11. How is linked list implemented

Ans. By referential structures

12. What method is used in Win95 in multitasking

Ans. Non preemptive check

13. What is meant by functional dependency

14. What is a semaphore

Ans. A method synchronization of multiple processes

15. What is the precedence order from high to low, of the symbols () ++ /

Ans. () , ++, /

16. Preorder of $A * (B + C) / D - G$

Ans. $* + A B C / - D G$

18. B-tree (failure nodes at same level)

19. Dense index (index record appears for every search -key in file)

20. What is the efficiency of merge sort

Ans. $O(n \log n)$

21.A program on swaping (10,5)was given (*candidate cannot recollect*)

22.In which layer are routers used

Ans.In network layer

23.In which layer are packets formed (in network layer)

24.heap (priority queue)

25.copy constructor (constant reference)

26.Which of the following sorting algorithm has average sorting behavior --
Bubble sort,merge sort,heap sort,exchange sort

Ans. Heap sort

27.In binary search tree which traversal is used for getting ascending order values--Inorder ,post order,preorder

Ans.Inorder

28.What are device drivers used for

Ans.To provide software for enabling the hardware

29. Irrelevant to unix command (getty)

30.What is fork command in unix

Ans. System call used to create process

31.What is make command in unix

Ans. Used for creation of more than one file

32.In unix .profile contains

Ans. Start up program

33.In unix echo is used for (answer C)

34.In unix 'ls 'stores contents in

Ans.inode block

QUANTITATIVE SECTION

1.In a class composed of x girls and y boys what part of the class is composed of girls

A. $y/(x + y)$

B. x/xy

C. $x/(x + y)$

D. y/xy

Ans.C

2.What is the maximum number of half-pint bottles of cream that can be filled with a 4-gallon can of cream(2 pt.=1 qt. and 4 qt.=1 gal)

A.16

B.24

C.30

D.64

Ans.D

3.If the operation, \wedge is defined by the equation $x \wedge y = 2x + y$,what is the value of a in $2 \wedge a = a \wedge 3$

A.0

B.1

C.-1

D.4

Ans.B

4.A coffee shop blends 2 kinds of coffee,putting in 2 parts of a 33p. a gm. grade to 1 part of a 24p. a gm.If the mixture is changed to 1 part of the 33p. a gm. to 2 parts of the less expensive grade,how much will the shop save in blending 100 gms.

- A.Rs.90
- B.Rs.1.00
- C.Rs.3.00
- D.Rs.8.00

Ans.C

5.There are 200 questions on a 3 hr examination.Among these questions are 50 mathematics problems.It is suggested that twice as much time be spent on each maths problem as for each other question.How many minutes should be spent on mathematics problems

- A.36
- B.72
- C.60
- D.100

Ans.B

6.In a group of 15,7 have studied Latin, 8 have studied Greek, and 3 have not studied either.How many of these studied both Latin and Greek

- A.0
- B.3
- C.4
- D.5

Ans.B

7.If $13 = 13w/(1-w)$,then $(2w)^2 =$

- A.1/4
- B.1/2
- C.1
- D.2

Ans.C

8. If a and b are positive integers and $(a-b)/3.5 = 4/7$, then

- (A) $b < a$
- (B) $b > a$
- (C) $b = a$
- (D) $b \geq a$

Ans. A

9. In June a baseball team that played 60 games had won 30% of its games played. After a phenomenal winning streak this team raised its average to 50%. How many games must the team have won in a row to attain this average?

- A. 12
- B. 20
- C. 24
- D. 30

Ans. C

10. M men agree to purchase a gift for Rs. D. If three men drop out how much more will each have to contribute towards the purchase of the gift?

- A. $D/(M-3)$
- B. $MD/3$
- C. $M/(D-3)$
- D. $3D/(M^2-3M)$

Ans. D

11. A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

- A. 7
- B. 8
- C. 11
- D. 12

Ans.C

12. 2 hours after a freight train leaves Delhi a passenger train leaves the same station travelling in the same direction at an average speed of 16 km/hr. After travelling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was?

- A. 30
- B. 40
- C. 58
- D. 60

Ans. B

13. If $9x-3y=12$ and $3x-5y=7$ then $6x-2y = ?$

- A. -5
- B. 4
- C. 2
- D. 8

Ans. D

ANALYTICAL ABILITY

1. The office staff of XYZ corporation presently consists of three bookepers--A, B, C and 5 secretaries D, E, F, G, H. The management is planning to open a new office in another city using 2 bookepers and 3 secretaries of the present staff. To do so they plan to seperate certain individuals who don't function well together. The following guidelines were established to set up the new office

- I. Bookepers A and C are constantly finding fault with one another and should not be sent together to the new office as a team
- II. C and E function well alone but not as a team, they should be seperated
- III. D and G have not been on speaking terms and shouldn't go together
- IV Since D and F have been competing for promotion they shouldn't be a team

1.If A is to be moved as one of the bookepers, which of the following cannot be a possible working unit.

- A. ABDEH
- B. ABDGH

C.ABEFH
D.ABEGH

Ans.B

2.If C and F are moved to the new office,how many combinations are possible

A.1
B.2
C.3
D.4

Ans.A

3.If C is sent to the new office,which member of the staff cannot go with C

A.B
B.D
C.F
D.G

Ans.B

4.Under the guidelines developed,which of the following must go to the new office

A.B
B.D
C.E
D.G

Ans.A

5.If D goes to the new office,which of the following is/are true

I.C cannot go
II.A cannot go
III.H must also go

A.I only
B.II only
C.I and II only
D.I and III only

Ans.D

2.After months of talent searching for an administrative assistant to the president of the college the field of applicants has been narrowed down to 5--A, B, C, D, E .It was announced that the finalist would be chosen after a series of all-day group personal interviews were held.The examining committee agreed upon the following procedure

- I.The interviews will be held once a week
- II.3 candidates will appear at any all-day interview session
- III.Each candidate will appear at least once
- IV.If it becomes necessary to call applicants for additonal interviews, no more 1 such applicant should be asked to appear the next week
- V.Because of a detail in the written applications,it was agreed that whenever candidate B appears, A should also be present.
- VI.Because of travel difficulties it was agreed that C will appear for only 1 interview.

1.At the first interview the following candidates appear A,B,D.Which of the follwing combinations can be called for the interview to be held next week.

- A.BCD
- B.CDE
- C.ABE
- D.ABC

Ans.B

2.Which of the following is a possible sequence of combinations for interviews in 2 successive weeks

- A.ABC;BDE
- B.ABD;ABE
- C.ADE;ABC
- D.BDE;ACD

Ans.C

3.If A ,B and D appear for the interview and D is called for additional interview the following week,which 2 candidates may be asked to appear with D?

- I. A
- II B
- III.C

IV.E

- A.I and II
- B.I and III only
- C.II and III only
- D.III and IV only

Ans.D

4. Which of the following correctly state(s) the procedure followed by the search committee

- I. After the second interview all applicants have appeared at least once
- II. The committee sees each applicant a second time
- III. If a third session, it is possible for all applicants to appear at least twice

- A. I only
- B. II only
- C. III only
- D. Both I and II

Ans.A

3. A certain city is served by subway lines A, B and C and numbers 1, 2 and 3

When it snows, morning service on B is delayed

When it rains or snows, service on A, 2 and 3 are delayed both in the morning and afternoon

When temp. falls below 30 degrees fahrenheit afternoon service is cancelled in either the A line or the 3 line,

but not both.

When the temperature rises over 90 degrees fahrenheit, the afternoon service is cancelled in either the line C or the

3 line but not both.

When the service on the A line is delayed or cancelled, service on the C line which connects the A line, is delayed.

When service on the 3 line is cancelled, service on the B line which connects the 3 line is delayed.

Q1. On Jan 10th, with the temperature at 15 degree fahrenheit, it snows all day. On how many lines will service be

affected, including both morning and afternoon.

- (A) 2
- (B) 3
- (C) 4

(D) 5

Ans. D

Q2. On Aug 15th with the temperature at 97 degrees farenheit it begins to rain at 1 PM. What is the minimum number of lines on which service will be affected?

(A) 2

(B) 3

(C) 4

(D) 5

Ans. C

Q3. On which of the following occasions would service be on the greatest number of lines disrupted.

(A) A snowy afternoon with the temperature at 45 degree farenheit

(B) A snowy morning with the temperature at 45 degree farenheit

(C) A rainy afternoon with the temperature at 45 degree farenheit

(D) A rainy afternoon with the temperature at 95 degree farenheit

Ans. B

4. In a certain society, there are two marriage groups, red and brown. No marriage is permitted within a group. On marriage, males become part of their wives groups; women remain in their own group. Children belong to the same group as their parents. Widowers and divorced males revert to the group of their birth. Marriage to more than one person at the same time and marriage to a direct descendant are forbidden

Q1. A brown female could have had

I. A grandfather born Red

II. A grandmother born Red

III Two grandfathers born Brown

(A) I only

(B) III only

(C) I, II and III

(D) I and II only

Ans. D

Q2. A male born into the brown group may have

- (A) An uncle in either group
- (B) A brown daughter
- (C) A brown son
- (D) A son-in-law born into red group

Ans. A

Q3. Which of the following is not permitted under the rules as stated.

- (A) A brown male marrying his father's sister
- (B) A red female marrying her mother's brother
- (C) A widower marrying his wife's sister
- (D) A widow marrying her divorced daughter's ex-husband

Ans. B

Q4. If widowers and divorced males retained their group they had upon marrying which of the following would be permissible (Assume that no previous marriage occurred)

- (A) A woman marrying her dead sister's husband
- (B) A woman marrying her divorced daughter's ex-husband
- (C) A widower marrying his brother's daughter
- (D) A woman marrying her mother's brother who is a widower.

Ans. D

5. I. All G's are H's

II. All G's are J's or K's

III All J's and K's are G's

IV All L's are K's

V All N's are M's

VI No M's are G's

Q1. If no P's are K's which of the following must be true

- (A) No P is a G
- (B) No P is an H
- (C) If any P is an H it is a G
- (D) If any P is a G it is a J

Ans. D

Q2. Which of the following can be logically deduced from the stated conditions

- (A) No M's are H's
- (B) No H's are M's
- (C) Some M's are H's
- (D) No N's are G's

Ans. D

Q3. Which of the following is inconsistent with one or more conditions

- (A) All H's are G's
- (B) All H's are M's
- (C) Some H's are both M's and G's
- (D) No M's are H's

Ans. C

Q4. The statement "No L's are J's" is

I. Logically deducible from the conditions stated

II Consistent with but not deducible from the conditions stated

III. Deducible from the stated conditions together with the additional statements "No J's are K's"

- (A) I only
- (B) II only
- (C) III only
- (D) II and III only

Ans. D

[Back to top](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of **three sections** based on the **MCQ pattern**. Each section has **30** questions. There is a **choice** between **Section 2** and **Section 3** and only one has to be done.

Section 1 is based on basic digital electronics.

Section 2 is software oriented

Section 3 is advanced digital electronics with questions on setup,hold time,clock violation etc.

(We have not provided you with the choices in the model test paper.)

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[Back To The Top](#)

• Interview

The written test is followed by a lengthy technical interview. The interview may last upto 1 hour or more. It is entirely technical with questions on all basic fundamentals. For more details on the kinds of questions asked please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

Cisco Systems is the worldwide leader in **networking for the Internet**. Cisco provides **end-to-end networking solutions**. Cisco sells its products in approximately **115 countries**. Cisco is one of America's greatest corporate success stories. Since shipping its first product in 1986, the company has grown into a **global market leader** that holds No. 1 or No. 2 market share in virtually every market segment in which it participates. Since becoming a public company in 1990, Cisco's annual revenues have increased from \$69 million in that year to \$12.2 billion in fiscal 1999. As measured by **market capitalization**, Cisco is among the largest in the world.

[Back To The Top](#)

SECTION 1 -- BASIC DIGITAL SECTION

1. In order to find out stack fault of a three input nand gate how many necessary input vectors are needed ?
2. What is parity generation ?
3. A nand gate becomes ____ gate when used with negative logic ?
4. What is the advantage of cmos over nmos ?
5. What is the advantage of synchronous circuits over asynchronous circuits ?
6. What is the function of ALE in 8085 ?
7. A voice signal sample is stored as one byte. Frequency range is 16 Hz to 20 Hz. What is the memory size required to store 4 minutes voice signal?
8. What will the controller do before interrupting CPU?
9. In a normalised floating point representation, mantissa is represented using 24 bits and exponent with 8 bits using signed representation. What is range ?
10. The stack uses which policy out of the following-- LIFO, FIFO, Round Robin or none of these ?
11. Where will be the actual address of the subroutine is placed for vectored interrupts?
12. Give the equivalent Gray code representation of AC2H.
13. What is the memory space required if two unsigned 8 bit numbers are multiplied ?

14. The vector address of RST 7.5 in 8085 processor is _____.

Ans. 003C (multiply 7.5 by 8 and convert to hex)

15. Subtract the following hexadecimal numbers--- $84_{16} - 2A_{16}$

16. Add the following BCD numbers--- 1001 and 0100

17. How much time does a serial link of 64 Kbps take to transmit a picture with 540 pixels.

18. Give the output when the input of a D-flip flop is tied to the output through the XOR gate.

19. Simplify the expression $AB + A(B + C) + B(B + C)$

20. Determine the logic gate to implement the following terms--ABC, A+B+C

21. Implement the NOR gate as an inverter.

22. What is the effect of temperature on the I_{cb} in a transistor

23. What is the bit storage capacity of a ROM with a 512×4 organisation?

24. What is the reason of the refresh operation in dynamic RAM's ?

25. Suppose that the D input of a flip flop changes from low to high in the middle of a clock pulse. Describe what happens if the flip flop is a positive edge triggered type?

26. How many flip flops are required to produce a divide by 32 device ?

27. An active HIGH input S-R latch has a 1 on the S input and a 0 on the R input. What state is the latch in?

28. Implement the logic equation $Y = C^{\wedge}BA^{\wedge} + CB^{\wedge}A + CBA$ with a multiplexer. (where C^{\wedge} stands for C complement)

29. Equivalent Gray code representation of AC2H.

30. What does a PLL consist of ?

We advice you to know the design of PLL as questions pertaining to this may be asked

SECTION 2 - SOFTWARE SECTION

1. The starting location of an array is 1000. If the array[1..5/...4] is stored in row major order, what is the location of element [4,3]. Each word occupies 4 bytes.

2. In a tertiary tree, which has three childs for every node, if the number of internal nodes are N, then the total number of leaf nodes are

3. Explain the term "locality of reference" ?

4. What is the language used for Artificial Intelligence

Ans: lisp

5. What is the character set used in JAVA 2.0 ?

Ans: Unicode

```
6. char a =0xAA ;
   int b ;
   b = (int) a ;
   b = b >> 4 ;
   printf("%x",b);
```

What is the output of the above program segment ?

```
7. struct s1 { struct { struct { int x; } s2 } s3 }y;
```

How does one access x in the above given structure definition ?

8. Why there is no recursion in Fortran ?

Ans. There is no dynamic allocation.

9. What is the worst case complexity of Quick sort?

Ans. $O(n^2)$

10. What will be sequence of operating system activities when an interrupt occurs ?

11. In a sequential search, what is the average number of comparisons it takes to search through n elements ?

Ans: $(n+1)/2$.

12. What is the size of the array declared as double * X[5] ?

Ans. $5 * \text{sizeof}(\text{double})$

13. A binary search tree with node information as 1,2,3,4,5,6,7,8 is given. Write the result obtained on preorder traversal of the binary search tree ?

Ans : 53124768

14. If size of the physical memory is $2^{32}-1$, then what is the size of the virtual memory ?

15. S \rightarrow A0B

A \rightarrow BB|0

B \rightarrow AA|1

How many strings of length 5 are possible with the above productions?

16. $(3*4096+15*256+3*16+3)$. How many 1's are there in the binary representation of the result ?

Ans. 10

17. In memory mapped I/O how is I/O is accessed ?

18. What is the use of ALE in 8085 ?

Ans To latch the lower byte of the address.

19. If the logical memory of 8 X 1024 is mapped into 32 frames, then the number of bits for the logical address are_____ ?

Ans. 13

20. Context free grammar is useful for which purpose ?

21. In ternary number representation, numbers are represented as 0,1,-1.(Here -1 is represented as 1 bar.) How is 352/9 represented in ternary number representation?

22. There are processes which take 4,1,8,1 machine cycles respectively. If these are executed in round robin fashion with a time quantum of 1, what is the time it take for process 4 to complete ?

Ans. 9

23. The minimum frequency of operation is specified for every processor because.....

- a)for interfacing slow peripherals
- b)dynamic memory refreshing.
- c)to make compatible with other processor.

24. For linked list implementation , which search is not applicable ?

Ans: Binary search.

25. Each character is represented by 7 bits, 1 bit is used to represent error bit and another bit for parity. If total number of bits transmitted is 1200 bits, then what is the number of symbols that can be transmitted ?

Ans: 133

26. Explain set associativity of cache ?

27. Write the postfix form of the following expression .

$$A + [[(B + C) + (D + E) * F] / G]$$

28. What is the function of the linker?

29. void f(int y)

```
{  
    struct s *ptr;  
    ptr = malloc (sizeof (struct)+99*sizeof(int));  
}
```

```
struct s{  
    int i;  
    float p;  
};
```

when free (ptr) is executed, then what will happen?

30. To concatenate two linked lists strings, the order is $O(1)$ is obtained for what kind of list?

[Back to top](#)

[Sample Paper](#)[Interview](#)[Profile of the company](#)

• Written Test

The test has around 80 Questions which are of MCQ type. There may be negative marking. The written test consists of the following sections:

Analytical Reasoning Section -- 30 Questions

Data Sufficiency Section -- 30 Questions

Arithmetic Section -- 20 Questions

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it consists of both technical grilling and HR interview. We would suggest that you take a look at the [Interview section](#) to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

CMC was set up by the **government of India in 1976**. Initially the thrust was on providing high quality

maintenance service. It works in fields like **software development, training and system integration services**.

This company is a global provider of **enterprise software solutions and services**. It provides services in designing, building, implementation, and support **IT solutions** that outlast management fads or technology upheavals - due to which **Swatch, Intel, Indian Airlines, ICICI, Indian Railways, Department of Space, IOC, NSE, IOCL, UTI and Sunkist Growers**, among others, chose to be its clients. They have projects in the key industries like **insurance sector, ERP, open universities stock exchanges, power sector, and defense**.

CMC's R&D center is located at **Hyderabad**. The center has developed new technologies which include DGPS based **vehicle tracking system, embedded systems** for defense, **distribution, automation, internet/ intranet technologies, pervasive computing, off-line signature verification, networking areas** - consultancy for establishing **VSAT networks, VHF/UHF packet radio network, credit card automation** and integration/ consultancy for establishing **WAN/ LAN** based on **fiber optics, structured cabling ethernet switches, routers etc**.

The company has also entered into a tie-up with **Compaq Asia** and has been appointed their National Systems Service Provider. CMC is the **leading** third party maintenance company in India and the **second** largest player in domestic software development as per a survey done last year. The company has entered into a strategic tie-up with **Baan**, one of the leading ERP solution provider and NCR for marketing its banking packages.

The company opened new centers with **Novell at Pune, Calcutta** and with **Borland at Mumbai, Calcutta, Bangalore and Hyderabad**.

For more information about this company visit their homesite at www.cmcltd.com

[Back To The Top](#)

CMC Sample Test

[Home](#)[Back To CMC Page](#)

This is only a sample paper. We are not providing you with all the questions - just some questions to give you a general idea of the test pattern.

ANALYTICAL REASONING SECTION

Directions for questions 1-5: The questions are based on the information given below

There are six steps that lead from the first to the second floor. No two people can be on the same step

Mr. A is two steps below Mr. C

Mr. B is a step next to Mr. D

Only one step is vacant (No one standing on that step)

Denote the first step by step 1 and second step by step 2 etc.

1. If Mr. A is on the first step, Which of the following is true?

- (a) Mr. B is on the second step
- (b) Mr. C is on the fourth step.
- (c) A person Mr. E, could be on the third step
- (d) Mr. D is on higher step than Mr. C.

Ans: (d)

2. If Mr. E was on the third step & Mr. B was on a higher step than Mr. E which step must be vacant

- (a) step 1
- (b) step 2
- (c) step 4
- (d) step 5
- (e) step 6

Ans: (a)

3. If Mr. B was on step 1, which step could A be on?

- (a) 2&e only
- (b) 3&5 only
- (c) 3&4 only
- (d) 4&5 only

(e) 2&4 only

Ans: (c)

4. If there were two steps between the step that A was standing and the step that B was standing on, and A was on a higher step than D , A must be on step

(a) 2

(b) 3

(c) 4

(d) 5

(e) 6

Ans: (c)

5. Which of the following is false

i. B&D can be both on odd-numbered steps in one configuration

ii. In a particular configuration A and C must either both an odd numbered steps or both an even-numbered steps

iii. A person E can be on a step next to the vacant step.

(a) i only

(b) ii only

(c) iii only

(d) both i and iii

Ans: (c)

Directions for questions 6-9: The questions are based on the information given below

Six swimmers A, B, C, D, E, F compete in a race. The outcome is as follows.

i. B does not win.

ii. Only two swimmers separate E & D

iii. A is behind D & E

iv. B is ahead of E , with one swimmer intervening

v. F is a head of D

6. Who stood fifth in the race ?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Ans: (e)

7. How many swimmers seperate A and F ?

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) cannot be determined

Ans: (d)

8. The swimmer between C & E is

- (a) none
- (b) F
- (c) D
- (d) B
- (e) A

Ans: (a)

9. If the end of the race, swimmer D is disqualified by the Judges then swimmer B finishes in which place

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

Ans: (b)

Directions for questions 10-14: The questions are based on the information given below

Five houses lettered A,B,C,D, & E are built in a row next to each other. The houses are lined up in the order A,B,C,D, & E. Each of the five houses has a colored chimney. The roof and chimney of each house must be painted as follows.

- i. The roof must be painted either green, red, or yellow.
- ii. The chimney must be painted either white, black, or red.
- iii. No house may have the same color chimney as the color of roof.
- iv. No house may use any of the same colors that the every next house uses.
- v. House E has a green roof.
- vi. House B has a red roof and a black chimney

10. Which of the following is true ?

- (a) At least two houses have black chimney.
- (b) At least two houses have red roofs.
- (c) At least two houses have white chimneys
- (d) At least two houses have green roofs
- (e) At least two houses have yellow roofs

Ans: (c)

11. Which must be false ?

- (a) House A has a yellow roof
- (b) House A & C have different color chimney
- (c) House D has a black chimney
- (d) House E has a white chimney
- (e) House B&D have the same color roof.

Ans: (b)

12. If house C has a yellow roof. Which must be true.

- (a) House E has a white chimney
- (b) House E has a black chimney
- (c) House E has a red chimney
- (d) House D has a red chimney
- (e) House C has a black chimney

Ans: (a)

13. Which possible combinations of roof & chimney can house

- I. A red roof & a black chimney
- II. A yellow roof & a red chimney

III. A yellow roof & a black chimney

- (a) I only
- (b) II only
- (c) III only
- (d) I & II only
- (e) I&II&III

Ans: (e)

14. What is the maximum total number of green roofs for houses

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

NOTE: The questions from 15-27 are multiple choice in the paper

15. There are 5 red shoes, 4 green shoes. If one draw randomly a shoe what is the probability of getting a red shoe

Ans $5C_1 / 9C_1$

16. What is the selling price of a car? If the cost of the car is Rs.60 and a profit of 10% over selling price is earned

Ans: Rs 66/-

17. $1/3$ of girls , $1/2$ of boys go to canteen .What factor and total number of classmates go to canteen.

Ans: Cannot be determined.

18. The price of a product is reduced by 30% . By what percentage should it be increased to make it 100%

Ans: 42.857%

19. There is a square of side 6cm . A circle is inscribed inside the square. Find the ratio of the area of circle to square.

Ans. 11/14

20. There are two candles of equal lengths and of different thickness. The thicker one lasts of six hours. The thinner 2 hours less than the thicker one. Ramesh lights the two candles at the same time. When he went to bed he saw the thicker one is twice the length of the thinner one. How long ago did Ramesh light the two candles .

Ans: 3 hours.

21. If $M/N = 6/5$, then $3M+2N = ?$

22. If $p/q = 5/4$, then $2p+q= ?$

23. If PQRST is a parallelogram what is the ratio of triangle PQS & parallelogram PQRST .

Ans: 1:2

24. The cost of an item is Rs 12.60. If the profit is 10% over selling price what is the selling price ?

Ans: Rs 13.86/-

25. There are 6 red shoes & 4 green shoes . If two of red shoes are drawn what is the probability of getting red shoes

Ans: $6c_2/10c_2$

26. To 15 lts of water containing 20% alcohol, we add 5 lts of pure water. What is % alcohol.

Ans : 15%

27. A worker is paid Rs.20/- for a full days work. He works $1\frac{1}{3}, 2\frac{2}{3}, 1\frac{3}{4}$ days in a week. What is the total amount paid for that worker ?

Ans : 57.50

28. If the value of x lies between 0 & 1 which of the following is the largest?

(a) x

- (b) x^2
- (c) $-x$
- (d) $1/x$

Ans : (d)

DATA SUFFICIENCY SECTION

Directions : For questions in this section mark

- (a) If condition (i) alone is sufficient
- (b) If condition (ii) alone is sufficient
- (c) If both conditions together are sufficient
- (d) If condition (i) alone & (ii) alone are sufficient
- (e) information not sufficient

1. A man 6 feet tall is standing near a light on the top of a pole What is the length of the shadow cast by the man.

- (i) The pole is 18 feet high
- (ii) The man is 12 feet from the pole

Ans: (c)

2. Two pipes A and B emptied into a reservoir , pipe A can fill the reservoir in 30 minutes by itself. How long it will take for pipe A and pipe B together to fill up the reservoir.

- (i) By itself, pipe B can fill up the reservoir in 20 minutes
- (ii) Pipe B has a larger cross-sectional area than pipe A

Ans: (a)

3. K is an integer. Is K is divisible by 12

- (i) K is divisible by 4
- (ii) K is divisible by 3

Ans: (c)

4. What is the distance from A to B

(i) A is 15 miles from C

(2) C is 25 miles from B

Ans: (e)

5. Was Melissa Brown's novel published?

(i). If Melissa Brown's novel was published she would receive atleast \$1000 in royalties during 1978

(ii). Melissa Brown's income for 1978 was over \$1000

Ans: (e)

6. Does every bird fly?

(i) Tigers do not fly.

(ii) Ostriches do not fly

Ans: (b)

7. How much does John weigh? Jim weighs 200 pounds.

(i) Toms weight plus Moes weight equal to John's weight.

(ii) John's weight plus Moe's weight equal to Twice Tom's weight.

Ans: (c)

8. Is the figure ABCD is a rectangle if

(i) angle ABC=90(degrees)

(ii) AB=CD

9. Find $x+2y$

(i). $x+y=10$

(ii). $2x+4y=20$

Ans: (b)

10. Is angle BAC is a right angle

(i) $AB=2BC$

(2) $BC=1.5AC$

Ans: (e)

11. Is x greater than y

(i) $x=2k$

(ii) $k=2y$

Ans: (e)

12. A piece of string 6 feet long is cut into three smaller pieces. How long is the longest of the three pieces?

(i). Two pieces are the same length.

(ii) One piece is 3 feet 2 inches lone

Ans: (b)

13. How many rolls of wall paper are necessary to cover the walls of a room whose floor and ceiling are rectangles 12 feet wide and 15 feet long

(i) A roll of paper covers 20 sq feet

(ii) There are no windows in the walls

Ans: (e)

14. x and y are integers that are both less than 10. Is $x > y$?

(i). x is a multiple of 3

(ii). y is a multiple of 2

Ans: (e)

15. Fifty students have signed up for atleast one of the courses GERMAN & ENGLISH, how many of the 50 students are taking GERMAN but not ENGLISH?

(i). 16 students are taking GERMAN & ENGLISH

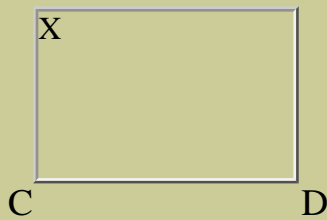
(ii). The number of students taking ENGLISH but not GERMAN is the same as the number of students taking GERMAN

Ans: (c)

16. Is ABCD is a square ?

A

B



- (i) $AD = AB$
- (ii). $x=90(\text{degrees})$

Ans: (e)

17. How much card board will it take to make a rectangular box with a lid whose base has length 7 inches.

- (i). The width of the box 5 inches
- (ii). The height of the box will be 4 inches

Ans: (c)

18. Did ABC company made profit in 1980?

- (i) ABC company made a profit in 1979.
- (ii) ABC company made a profit in 1981.

Ans: (e)

19. How much is Janes salary?

- (i). Janes salary is 70% of John's salary
- (ii). Johns salary is 50% of Mary's salary

Ans: (e)

20. Is $x > 1$

- (i) $x+y=2$
- (ii) $y < 0$

Ans: (c)

21. How many of the numbers, x and y are positive? Both x and y are less than 20.

- (i) x is less than 5
- (ii) $x+y = 24$

Ans: (b)

22. Is the angle ACB is right angle

(1) $AC=CB$

(2). $(AC)^2+CB^2=AB^2$

Ans: (b)

23. How far it from town A to town B? Town C is 12 miles east of town A

(i). Town C is south of town B

(ii). It is 9 miles from town B to town C

Ans: (c)

24. A rectangular field is 40 yards long. Find the area of the field.

(i). A fence around the boundary of the field is 140 yards long

(ii). The field is more than 20 yards width

Ans: (a)

25. An industrial plant produces bottles. In 1961 the number of bottles produced by the plant was twice the number of produced in 1960. How many bottles were produced altogether in the year 1960, 61,&62

(i). In 1962 the number of bottles produced was 3 times the number of produced in 1980

(ii). In 1963 the number of bottles produced was one half the total produced in the years 1960,1961,1962.

Ans: (e)

26. Is $xy > 1$? If x & y are both positive

(i) x is less than 1

(ii) y is greater than 1

Ans: (e)

27. Is it a Rhombus

(i) All four sides are equal

(ii) Total internal angle is 360

Ans: (e)

28. How many books are in the book shelf

(i) The book shelf is 12 feet long

(ii). The average weight of each book is 1.2 pound

Ans: (e)

29. What is the area of the circle?

(i) Radius r is given

(ii) Perimeter is 3 times the area

Ans: (a)

ARITHMETIC SECTION

1. If the total distance of a journey is 120 km .If one goes by 60 kmph and comes back at 40kmph what is the average speed during the journey?

Ans: 48kmph

2. A school has 30% students from Maharashtra .Out of these 20% are Bombay students. Find the total percentage of Bombay?

Ans: 6%

3. An equilateral triangle of sides 3 inch each is given. How many equilateral triangles of side 1 inch can be formed from it?

Ans: 9

4. If $A/B = 3/5$, then $15A = ?$

Ans : 9B

5. Each side of a rectangle is increased by 100% .By what percentage does the area increase?

Ans : 300%

6. Perimeter of the back wheel = 9 feet, front wheel = 7 feet on a certain distance, the front wheel gets 10 revolutions more than the back wheel .What is the distance?

Ans : 315 feet.

7. Perimeter of front wheel =30, back wheel = 20. If front wheel revolves 240 times. How many

revolutions will the back wheel take?

Ans: 360 times

8. 20% of a 6 litre solution and 60% of 4 litre solution are mixed. What percentage of the mixture of solution

Ans: 36%

9. City A's population is 68000, decreasing at a rate of 80 people per year. City B having population 42000 is increasing at a rate of 120 people per year. In how many years both the cities will have same population?

Ans: 130 years

10. Two cars are 15 kms apart. One is turning at a speed of 50kmph and the other at 40kmph . How much time will it take for the two cars to meet?

Ans: 3/2 hours

11. A person wants to buy 3 paise and 5 paise stamps costing exactly one rupee. If he buys which of the following number of stamps he won't able to buy 3 paise stamps.

Ans: 9

12. There are 12 boys and 15 girls, How many different dancing groups can be formed with 2 boys and 3 girls.

13. Which of the following fractions is less than $\frac{1}{3}$

- (a) $\frac{22}{62}$
- (b) $\frac{15}{46}$
- (c) $\frac{2}{3}$
- (d) 1

Ans: (b)

14. There are two circles, one circle is inscribed and another circle is circumscribed over a square. What is the ratio of area of inner to outer circle?

Ans: 1 : 2

Directions for questions 15-17: The questions are based on the information given below

Miss Dean wants to rennovate her house. She hires a plumber, a carpenter, a painter, an electrician and an interior decorator. The work to be finished in one working (Monday - Friday).

Each worker will take the full day to do his job. Miss Dean permits only one person to work each day.

I. The painter can work only after the plumber and the carpenter have finished their jobs

II. The interior decorator must do his job before the electrician.

III. The carpenter cannot work on Monday or Tuesday

15. If the painter work on Thursday, which one of the following alternatives is possible?

- (a) The electrician works on Tuesday.
- (b). The electrician works on Friday.
- (c) The interior decorator works after the painter does.
- (d). The painter works on consecutive days.
- (e). Miss Dean cannot fit all of the workers int schedule

Ans: (b)

16. If the painter works on Friday which of the following must be false?

- (a) . The carpenter may works on Wednesday
- (b). The carpenter and the electrician may work on consecutive days
- (c). If the carpenter works on Thursday, the electrician has to work on Wednesday
- (d). The plumber may work before the electrician does
- (e). The electrician may work on Tuesday

Ans: (c)

17. Which argument is possible?

- (a). The electrician will works on Tuesday and the interior decorator on Friday
- (b). The painter will work on wednesday and plumber on thursday
- (c). The carpenter will works on Tuesday and the painter on Friday
- (d). THe painter will work on Monday and the carpenter on Thursday
- (e). The carpenter will work on Wednesday and the plumber on Thursday

Ans: (e)

[Back to top](#)

Cognizant Technology Solutions(CTS)

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written tests are based on critical reasoning type questions. Word-based problems, verbal ability, pattern recognition and pattern matching, series type, arithmetic-based (including functions and permutations) are usually asked.

We are giving some sample tests with questions based on the pattern mentioned above to give you a general idea.

[Sample Paper1](#) [Sample Paper2](#) [Sample Paper3](#)

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it may consist of both technical grilling and HR interview. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

Founded in 1994 as a division of Dun & Bradstreet Corporation, Cognizant Technology Solutions began doing large-scale full lifecycle software projects. CTS works in fields related e-business and application management. CTS is also engaged in offshore development and provide services in other fields like wireless, data warehousing and euro-compliance. They also service varied industries like healthcare, finance, information services, retail and restaurant and telecom.

Headquartered in Teaneck, New Jersey, CTS has sales offices located in Chicago, Dallas, Minneapolis, Los Angeles, San Francisco, Toronto, London and Frankfurt. CTS has nine development facilities in India spread across Chennai, Calcutta, Pune and Bangalore.

For more information visit the company's home site at www.cognizant.com

[Back To The Top](#)

CTS Sample Test Paper#1

[Home](#)

[Back To CTS Page](#)

This is only a sample paper. We are not providing you with all the questions - just some questions to give you a general idea of the test pattern.

SECTION-1:

Find the next in the sequence:

1. BC CE EG GK ?

- a)KN
- b)KU
- c)KM
- d)None

2. AA AB BC CE?

- a)EG
- b)EH
- c)EI
- d)None

3. AB EF JK QR ?

- a)YZ
- b)ZA
- c)AB
- d)None

4.ACD EGL IKT MOB?

- a)QST
- b)QSZ
- c)QSY
- d)None

5.AC CG GO OE?

- a)EJ
- b)EI
- c)EL
- d)None

6.AE BH CM DU?

- a)EH
- b)EZ
- c) EB
- d)None

7. AD DP PL LV

- a)VS
- b)VK
- c)VI
- d)None

8. SE QU EN TI?

- a)CN
- b)BM
- c)AI or AZ
- d)None

SECTION-II:

Find the values for the following problem:

$f(X) = 2X - 1 + f(X - 1)$ if X is not equal to zero and if $f(X = 0) = 0$

9. Value of $f(5)$

- a)15
- b)24
- c)22
- d)None

10. Value of $f(f(2))$

11. Value of $f(16) - f(15)$

12. Value of $f(16) + f(15) - 480$

13. If $f(f(X)) = 81$ then the value of $X = ?$

14. If $f(X) = 4f(X-1)$ then the value of $X = ?$

15. If $f(X) = f(X-1) + f(X-2)$ for $X > 1$ then $X = ?$

16. If $f(X) - f(X-1) = f(X-8)$ for $X > 5$ then $X =$

SECTION -III:

In the following questions a 'word' is given which may not have any meaning. Find different possible words or palindromes for the word as per the question.

For the following find no of distinct words that can be formed.

17. TYGHHTT

- a).420
- b).1540
- c).840
- d).None

18. TYGHHTY

19. TYGHHTT

20. TYGHHTT

21. TYGHASD

22. TYGHHTY

Find the number of possible palindromes for following

23. TYGHHTY

24. TYHHHTYH.

SECTION-IV:

*25 to 32 are based on the figures. You have to analyse them and find the odd one out.
Five figures will be given out of which one is not correct.*

Refer R.S Agarwal's book on Analytical Reasoning & TMHs Quantitative ability book by Edgar Thorpe.

SECTION -V:

For following first find out the anagram and then note the corresponding meaning.

33.TABLET

Hint: anagram means first u arrange the letters in correct order like TABLET===BATTLE . So ans is FIGHT

34.RUGGED

35.GORE.

36.STASSI.

For all above choices are.

- a)resentment
- b)fight
- c)help
- d)monster

37. ENFOLD

38. LAMB

39. RECEDE.

40. PLEASE.

For all the above 4 choices are same

- a)cuddle
- b)sleeping
- c)proclamation
- d)ointment.

[Back to top](#)

CTS Sample Test Paper#2

[Home](#)
[Back To CTS Page](#)

This is only a sample paper. We are not providing you with all the questions - just some questions to give you a general idea of the test pattern.

SECTION I - 8 questions based on series.

1. These questions involve interchange of letters in a word at particular locations and also interchanging letters adjacent to those particular locations. Certain other conditions may also be given

For eg.

Let the word be ABBAABA

If we apply 25 on this, it means we have to interchange the letters at positions 2 and 5, also we have to change the letters adjacent to positions 2 and 5 i.e. from A to B and B to A.

A B B A A B after Step 1 i.e interchange of 2 and 5 becomes AABABB

Now change adjacent elements of 2 and 5...finally answer becomes

Ans: B A A B B A

Questions 1-5 are based on the pattern with changed numbers as described above

Questions 6-8 are of the following type

To get AAABBD from BBBAAA what number should be applied:-

- a) 25
- b) 34
- c) 25 & 34
- d) none

SECTION II

1. Given the following functions

(1) $f(n \ a \ b \ c) = ac$ if $n=1$

(2) $f(n \ a \ b \ c) = f(n-1 \ a \ c \ b) + f(n-1 \ a \ b \ c) + f(n-1 \ b \ a \ c)$ if $n > 1$

Then what is the value $f(2 \ a \ b \ c) = ?$

Ans: $f(2 \ a \ b \ c) = ab + ac + bc$.

2. Similar question on functions.

3. [*Based on the function in the first question*] For the function $f(4a b c)$ the number of terms is...?
Hint $f(4a b c) = f(3a c b) + f(1a b c) + f(3b a c)$ etc.

4. What is the value of the function $f(5a b c) = ?$

SECTION III

Permutations and Combinations.

8 Questions.

1. r = number of flags; n = number of poles;
 Any number of flags can be accommodated on any single pole.

1) $r=5, n=5$ The no. of ways the flags can be arranged ?

Questions 2-5 are based on the above pattern

6. $r = 5, n = 3$. If first pole has 2 flags, third pole has 1 flag
 How many ways can the remaining be arranged?

Questions 7.& 8. are similar to Question 6.

SECTION IV

Question consisting of figures - Pattern-matching type.

Refer R.S Agarwal's book on Analytical Reasoning & TMHs Quantitative ability book by Edgar Thorpe.

SECTION V

In this section first part of compound word is given. Select meaning of the second part from the choice given:

1. Swan
2. Swans
3. Fool
4. Fools
5. Stare
6. Lady

For all above 4 choices are given.....

Eg. Swan ---> Swansong (compound word)

a) category b) music c) television d) none

Ans: Swansong is compound word. But song is not given as an option. so (b) music is the answer.

[Back to top](#)

CTS Sample Test Paper#3

[Home](#)

[Back To CTS Page](#)

Analogies

1. slur : speech : : smudge : ?

Ans. writing

2. epaulet : shoulder : : ring : ?

Ans.finger

3. vernacular : place : : fingerprint : ?

Ans.identical

Opposites

Q. corpulent

Ans: emaciated

Q. officious

Ans: pragmate

Q. dextrous

Ans: clumsy

The following sentences are broken into 4 sections- A, B, C, D

Choose the part which has a mistake

Mark (E) if you find no mistake.

Q.A)psychologists point out that B)there are human processes C)which does not involve D) the use of words

Ans. (C) which does not involve (do)

Q.A)jack ordered for B)two plates of chicken C)and a glass D)of water

Ans. (A)jack ordered for

The following is a group of questions is based on a passage or a set of conditions for each question. Select the best answer choice given.

- (i). If it is forbidden by law if the object of agreement is the doing of an act, that is forbidden by law the agreement is void.
- (ii). If it is of the nature that, it would defeat the provision of any law is the agreement is void. if the object of agreement is such that thing got directly forbidden by law it would defeat the provision of statutory law.
- (iii). If the object of agreement is fraudulent it is void.
- (iv). An object of agreement is void if it involves or implies to the personal property of another.
- (v). An object of agreement is void where the contract regards as ignored.
- (vi). An object of agreement is void where the contract regards as opposed to public policy.

Q. An algorithm follows a six step process za, zb, zc, zd, ze, zf, it is governed by the following

- (i) zd should follow ze
- (ii) the first may be za, zd or zf
- (iii) zb and zc have to be performed after zd
- (iv) zc must be immediately after zb

Q. If za is the first set zd must be

- a) 3rd
- b) 5th
- c) 2nd
- d) 4th

Q. If zb must follow za then za can be

- a) third or fourth
- b) first or second

- c) can not be third
- d) fourth or fifth
- e) none

Q. If ze is third term the number of different operations possible are

The following questions are based on the given statements

Ravi plants six separate saplings -- x,y,z,w,u,v in rows no 1 to 6 ,according to the following conditions

He must plant x before y and u

He must plant y and w

The third has to be z

Q. Which of the following is acceptable

- a) xuywzv
- b) xvzyuw
- c) zuyxwv
- d) zvxuwy
- e) wyzuvx

Q. Which of the following is true

- a) z before v
- b) z before x
- c) w before u
- d) y before u
- e) x before w

Q. If he plants v first, then which can be planted second

- a) x
- b) y
- c) z
- d) w
- e) u

Q. Which of the following describes a correct combination of sapling and row?

- a) x,3
- b) y,6

- c) z,1
- d) w,2
- e) u,6

Q. If he plants b 6th which would be planted first and second

- a) x and w
- b) x and y
- c) y and x
- d) w and z
- e) w and u

Q. If he plants w before u and after v he should plant w at

- a) first
- b) second
- c) fourth
- d) fifth
- e) sixth

Q. At a certain moment a watch shows 2 min lag although it is running fast.

If it showed a 3 min lag at that moment, but also gains by $1/2$ min more a day than its current speed it would show the true time one day sooner than it usually does.

How many mins does the watch gain per day.

- a).2
- b).5
- c).6
- d).4
- e).75

Q. In 400m race A gives B a start of 7 sec and beats him by 24 sec.

In another race A beats B by 10 sec.the speeds are in the ratio

- a)8:7
- b)7:6
- c)10:8
- d)6:8
- e)12:10

Q. $3x+4y=10$

$$x^3 + y^3 = 6$$

What is the minimum value of $3x+11y=?$

Q. There are 600 tennis players

4% wear wrist band on one wrist

Of the remaining, 25% wear wrist bands on both hands

How many players don't wear a wrist band?

Ans. 432

Q. Three types of tea the a,b,c costs Rs. 95/kg,100/kg and70/kg respectively.

How many kgs of each should be blended to produce 100 kg of mixture worth Rs.90/kg,
given that the quantities of band c are equal

a)70,15,15

b)50,25,25

c)60,20,20

d)40,30,30

Ans. (b)

Q. Two distinct no's are taken from 1,2,3,4.....28

Find the probability that their sum is less than 13

[Back to top](#)

D E Shaw & Co

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The paper is technical based - with a **major emphasis on C**. At the moment we are providing you with a few questions so that you have an idea of the paper and know what to expect.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The **interview is based mainly on C**. The panel may ask you to solve some new questions in front of them. Your C fundamentals should be very strong and expect some real tough stuff from the panel. For details on the other frequently asked questions please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

In July 1988, a small investment partnership called D. E. Shaw & Co., L.P. was organized with an **initial capitalization of US \$28 million** and an ambitious plan for the application of quantitative and computational techniques to various aspects of the securities business. Today, the D. E. Shaw group of companies has approximately \$1.2 billion in aggregate capital, and has earned an international reputation for financial innovation and technological leadership.

For the first several years of its existence, D. E. Shaw & Co. used its technical expertise solely to trade for its own account, establishing a quiet reputation within the quantitative financial community while remaining nearly invisible to the world at large. In 1992, however, the firm made a strategic decision to expand its focus and presence, launching a new business unit to apply quantitative and computational techniques in support of the provision of financial services to outside customers. A third line of activity was added in 1994, when the **company began to fund (and, in some cases, organize) early- and intermediate-stage technology-oriented business ventures.**

The firm was **founded in 1988 by David E. Shaw**, who continues to serve as chairman and chief executive officer of D. E. Shaw & Co., Inc. The author of 63 scholarly publications, Dr. Shaw received his Ph.D. from Stanford University in 1980 and served on the faculty of the Department of Computer Science at Columbia University before joining Morgan Stanley & Co. in 1986 as its vice president in charge of automated analytical trading technology. Earlier, he founded and served as president and CEO of Stanford Systems Corporation, a computer systems firm based in California's Silicon Valley.

The indian arm of the company is **based in Hyderabad**. The company's pay package is comparable to the best in the industry.

For more information about this company visit their homesite at www.deshaw.com

[Back To The Top](#)

DE-Shaw Software Sample Test Paper

[Home](#)[Back To D E Shaw Page](#)

SECTION-A

Write the programs for the following problems in C.

1. Swap two variables x,y without using a temporary variable.
2. Write algorithm for finding the GCD of a number.
3. Write a program for reversing the given string.
4. The integers from 1 to n are stored in an array in a random fashion. but one integer is missing. Write a program to find the missing integer.

Ans). Hint : The sum of n natural numbers is $= n(n+1)/2$.
if we subtract the above sum from the sum of all the numbers in the array , the result is nothing but the missing number.

5. Some bit type of questions has been given on pointers asking to find whether it is correct from syntax point of view. and if it is correct explain what it will do.(around 15 bits).

SECTION-B

6. For the following C program

```
#define AND &&
```

```
#define ARRANGE (a>25 AND a<50)
main()
{int a = 30;
if (ARRANGE)
printf("within range");
else
printf("out of range");
}
```

What is the output?

7. For the following C program

```
#define AREA(x)(3.14*x*x)
main()
{float r1=6.25,r2=2.5,a;
a=AREA(r1);
printf("\n Area of the circle is %f", a);
a=AREA(r2);
printf("\n Area of the circle is %f", a);
}
```

What is the output?

Ans. Area of the circle is 122.656250
Area of the circle is 19.625000

8. What do the following statements indicate. Explain.

- `int(*p)[10]`
- `int*f()`
- `int(*pf)()`
- `int*p[10]`

Refer to:

-- Kernighan & Ritchie page no. 122
-- Schaum series page no. 323

9. Write a C program to find whether a stack is progressing in forward or reverse direction.

10. Write a C program that reverses the linked list.

[Back to top](#)

Deutsche Software(India) Ltd.

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test is purely an aptitude test.It is a one hour test with 50 questions.The test checks your basic mathematics and logical ability.

[Click here to see a sample test.](#) **NEW!**

[Back To The Top](#)

• Interview

The test is followed by a HR interview. The interview is very general.In most cases questions regarding the company are also asked. You may be required to clear a technical interview later (which can be held in their Bangalore head office). For details on the other frequently asked questions please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

Deutsche Software(India) is a wholly owned subsidiary of **Deutsche Bank (Asia-Pacific) Training Centre Pvt.Ltd.** It was established in **1992**. The company showed a revenue of Rs.43.32 crore in the year 1999-2000 showing a growth of about 11%. The company has its headquarters at **Bangalore**. Deutsche Software presently has about 400 employees. **Mr.S.Nagarajan** is the present **CEO**.

It is a software company that is much more specific to providing **financial management services** to banking and other financial institutions. Deutsche Software provides IT support to **Deutsche Bank AG WorldBank**, and also other subsidiaries of its.

The company offers a remuneration of **Rs.2.4 to 2.6 lacs per annum**.

For more information about this company visit their homesite at www.dsidb.com

[Back To The Top](#)

Deutsche Software(India) Sample Test

[Home](#)

[Back To Deutsche Soft Page](#)

1. What is the percentage represented by $0.03 * 0.05$?

- (a) 0.0015
- (b) 0.000015
- (c) 0.15
- (d) 15

Ans.B

2. $(x-a)(x-b)(x-c)....(x-z) = ?$

- (a) 1
- (b) -1
- (c) 0
- (d) Can't be determined

Ans. C

3. If $a = 1, b = 2, c = 3.....z = 26$ what is the value of $p+q+r$?

- (a) 33
- (b) 51
- (c) 52
- (d) 48

Ans. B

4. A is 8 miles east of B.
C is 10 miles north of B.
D is 13 miles east of C and E is 2 miles north of D.
Find shortest distance between A and E.

- (a) 5 miles
- (b) 6miles
- (c) 13 miles
- (d) 18 miles

Ans. C

5. If $z = 1$, $y = 2$ $a = 26$. Find the value of $z + y + x + \dots + a$.

- (a) 351
- (b) 221
- (c) 400
- (d) 200

Ans. A

6. There are 30 socks in a bag.

Out of these 60 % are green and the rest are blue.

What is the maximum number of times that socks have to be taken out so that atleast 1 blue pair is found.

- (a) 21
- (b) 2
- (c)18
- (d) 20

Ans. D

7. How many two digit numbers have their square ending with 8.

- (a) 13
- (b) 12
- (c) 0
- (d) 11

Ans. C

8. How many numbers are there between 100 and 300 with 2 in the end and 2 in the beginning.

- (a) 10
- (b) 9
- (c) 11
- (d) none of these

Ans. A

9. $0.0000006 * 0.0000007 = ?$

- (a) 0.00000000042
- (b) 0.0000000000042
- (c) 0.00000000000042
- (d) 0.000000000000042

Ans. B

10. You have Rs 1000 with 8% p.a compounded every 6 months.
What is the total interest you get after 1 year.

- (a) Rs.116.40
- (b) Rs.345.60
- (c) Rs.224.50
- (d) Rs.160

Ans. A

11. If $x + y = 12$,
 $x - y = 2$
Find $x + 2y$.

- (a) 12
- (b) 17
- (c) 14
- (d) none of these

Ans. B

12. With one gallon of petrol a person moves at a speed of 50 mph and covers 16 miles.
3/4th of the distance is covered while moving at 60 mph.
How many gallons does he need to cover 120 miles in 60 mph.

13. A tap drains at x speed while tap B is closed.
When both taps are open they drain at y speed.
What is the speed of draining when only tap B is open

- (a) $x - y$
- (b) $y - x$
- (c) x
- (d) can't be determined

Ans. B

14. What is twenty percent of 25 % of 20.

- (a) 2
- (b) 1
- (c) 5
- (d) 4

Ans. B

15. A rectangle has the dimensions 6ft * 4ft.
How many squares of 0.5 inches will it need to completely fill it.

- (a) 32000
- (b) 12824
- (c) 13824
- (d) 18324

Ans. C

Directions for questions 16-21: In each question, a series of letters satisfying a certain pattern are given.
Identify the pattern and then find the letter/letters that will come in place of the blank/blanks.

16. a, c, e, g, _

- (a) h
- (b) i
- (c) d
- (d) j

Ans. B

17. a, e, i, m, q, u, _, _

- (a) y, c
- (b) b, f
- (c) g, i
- (d) none

Ans. A

18. ay , bz , cw , dx ,__

- (a) gu
- (b) ev
- (c) fv
- (d) eu

Ans. D

19. 1, 2, 3, 5, 7, 11, __

- (a) 15
- (b) 9
- (c) 13
- (d) 12

Ans. 13 , series of prime numbers

20. kp , lo , mn , __

- (a) nm
- (b) np
- (c) op
- (d) pq

Ans. A

21. abc , zyx , def , wvu , ____

- (a) ghi
- (b) tsr
- (c) ihg
- (d) str

Ans. A

22. How is my mother's sister's brother's wife's child related to me?

- (a) brother
- (b) uncle
- (c) cousin
- (d) nephew

Ans. A

23. What will my mother's husband's father-in-law's son's daughter be to me?

- (a) niece
- (b) aunt
- (c) sister
- (d) none of these

Ans. D

24. A person travels 12 km in the southward direction and then travels 5 km to the right.

He then travels 5 km to the right and then travels 15 km towards the right and finally travels 5 km towards the east.

How far is he from his starting place?

- (a) 5km
- (b) 3m
- (c) 3.5km
- (d) 4km

Ans. (b)

25. A person travels towards east from his house and travels a distance of 3 meters.
He then ran a distance of 7 meters southwards and then travels towards east a distance of 3 meter
Finally he travels southwards a distance of 10 meters.
What is his vertical distance from his house?

- (a) 10
- (b) 17
- (c) 12
- (d) none of these

Ans. B

26. The sum of three consecutive numbers is 132. Find the square of the largest number.

- (a) 2026
- (b) 640
- (c) 900
- (d) 2025

Ans. D

27. Father's age is five times his son's age.
Four years back father was 9 times older than his son.
Find their present ages

- (a) 30yrs, 6yrs
- (b) 25yrs, 5yrs
- (c) 40yrs, 8yrs
- (d) none of these

Ans. C

28. If $x + 5y = 6$;
 $7x - 2y = 5$

Find $x - y$

- (a) 1
- (b) 2
- (c) 0
- (d) none of these

Ans. C

29. If the equation $x^2 + 2(k+2)x + 9k = 0$ has equal roots, find k?

- (a) 1,4
- (b) 1,5
- (c) 2,5
- (d) can't be determined

Ans. A

Directions for questions 30 to 35: Select the alternative that logically follows from the two given statements.

30. All books are pages. All pages are boxes.

- (a) All boxes are books
- (b) All books are boxes
- (c) No books are boxes
- (d) Both (a) and (b) are correct

Ans. B

31. No apple is an orange. All bananas are oranges.

- (a) All apples are oranges
- (b) Some apples are oranges

- (c) No apple is a banana
- (d) None of the above

Ans. A

32. All pens are elephants. Some elephants are cats.

- (a) Some pens are cats
- (b) No pens are cats
- (c) All pens are cats
- (d) None of the above

Ans. D

33. All shares are debentures.No debentures are deposits.

- (a) All shares are deposits
- (b) Some shares are deposits
- (c) No shares are deposits
- (d) None of the above

Ans.C

34. Many fathers are brothers. All brothers are priests.

- (a) No father is a priest
- (b) Many fathers are not priests
- (c) Many fathers are priests
- (d) Both (b) and (c)

Ans. B

35. Some pens are pencils. All pencils are costly.

- (a) No pens are costly
- (b) Some pens are costly
- (c) All pens are costly
- (d) None of the above

Ans. B

36. How many two digit numbers have their squares ending with 6?

- (a) 9
- (b) 10
- (c) 164
- (d) 18

Ans. D

37. In how many years will \$1200 amount to \$1323 at 5%p.a. compound interest?

- (a) 3 years
- (b) $2\frac{1}{2}$ yrs
- (c) 2 yrs
- (d) none of the above

Ans. C

38. How many terms of the series -9 , -6 , -3 ,.....must be taken such that the sum may be 66?

- (a) 11
- (b) 13
- (c) 9
- (d) 10

Ans. A

39. The sum of three numbers in AP is 27 and their product is 504. Find the terms.

- (a) 7, 9 ,11
- (b) 5, 9, 13
- (c) 4, 9, 14
- (d) none of these

Ans. C

40. Two pipes A and B can fill a tank in 20 and 25 seconds respectively.
Both are opened at the same time and after 5 minutes the first one is closed.
How much more time will it take for the tank to be full?

- (a) 13 min 45 secs
- (b) 10 min
- (c) 18 min
- (d) 15 min 45 secs

Ans. A

41. How long will a train 150 metres long and travelling at a speed of 45 kmph,
take to cross a platform of length 250 meters?

- (a) 48 secs
- (b) 32 secs
- (c) 30 secs
- (d) none of the above

Ans. B

42. Walking at $\frac{4}{5}$ th of his usual speed, a man reaches his office 15 mins late.
Find his usual time for reaching the office?

- (a) 45 mins
- (b) 2 hrs
- (c) 1 hr
- (d) 30 mins

Ans. C

43. If the word "CODING" is represented as DPEJOH , then the word "CURFEW" can be represented?

- (a) DVSGFX
- (b) DVSHFX
- (c) DGSHFX
- (d) DTSGFY

Ans. A

44. If in a certain code "RANGE" is coded as 12345 and "RANDOM" is coded as 123678, then the code for the word "MANGO" would be

- (a) 82357
- (b) 84563
- (c) 82346
- (d) 82543

Ans. D

45. If in a code "COPIER" is coded as 1234 and "REAM" is coded as 5421, then "DREAM" is coded as

- (a) 35421
- (b) 43512
- (c) 35412
- (d) 34521

Ans. A

Directions for questions 46-48: The questions are based on the following data

In a class of 150 students 55 speak English; 85 speak Telugu and 30 speak neither English nor Telugu

46. How many speak both English and Telugu?

- (a) 10
- (b) 15
- (c) 20
- (d) 12

Ans. C

47. How many speak only Telugu?

- (a) 55

- (b) 45
- (c) 65
- (d) none of the above

Ans.C

48.How many speak at least one of the two languages?

- (a) 120
- (b) 100
- (c) 250
- (d) 50

Ans. A

49. Find the lowest of the three numbers in a GP whose sum is 38 and product 945.

- (a) 12
- (b) 18
- (c) 4
- (d) 8

Ans. D

50. A can do a piece of work in 24days.

When he had worked for 4 days B joined him.

If the complete work is finished in 16 days form the beginning, in how many days can B alone finish the work?

- (a) 24 days
- (b) 18 days
- (c) 36 days
- (d) None of the above

Ans. C

[Back to top](#)

Dharma Systems

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The format of the dharma paper is like this:

There will be two sets of papers, one the technical which is full of c and the other is aptitude which has very simple questions (about 60 of them) but what matters is the speed at which one does the paper. The aptitude paper is fairly simple and is pretty straightforward so we aren't putting it up here. We would suggest that you view the aptitude papers of other companies put on this site to get an idea about it. The technical paper is slightly different as it covers C in depth. This is the paper that we have kept as the sample test given below.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it consists mainly of technical grilling. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

Dharma Systems, Inc. is a leading supplier of application integration technology for **Web integrators** and **e-business integration technologies**. Dharma Systems has over **13 years** experience in providing integration technology to companies with large legacy systems. The company's clientele includes **BMC Software, Lucent Technologies, Unisys, Objectivity, and Agilent Technologies**. In addition to partnering with Web Development firms, Dharma Systems also has partnered with a number of major application server vendors including **Bluestone Software, Fujitsu, GemStone Systems, Secant Technologies** and **Unify**. The company is headquartered in **Nashua, New Hampshire** and has additional U.S. offices **San Mateo, CA** and **Raleigh, NC**. In addition, the company also has a wholly owned subsidiary in **Bangalore, India**. The company employs a staff of approximately **180** people worldwide. Their flagship product is called **eUnify**.

For more information goto the companys home site at www.dharma.com.

[Back To The Top](#)

Dharma Sample Test Paper

[Home](#)[Back To Dharma Page](#)

Give the output of the programs in each case unless mentioned otherwise

1.
void main()
{
int d=5;
printf("%f",d);
}

Ans: Undefined

2.
void main()
{
int i;
for(i=1;i<4,i++)
switch(i)
case 1: printf("%d",i);break;
{
case 2:printf("%d",i);break;
case 3:printf("%d",i);break;
}
switch(i) case 4:printf("%d",i);
}

Ans: 1,2,3,4

3.
void main()
{
char *s="\12345s\n";
printf("%d",sizeof(s));
}

Ans: 6

```
4.
void main()
{
unsigned i=1; /* unsigned char k= -1 => k=255; */
signed j=-1; /* char k= -1 => k=65535 */
/* unsigned or signed int k= -1 =>k=65535 */
if(i<j)
printf("less");
else
if(i>j)
printf("greater");
else
if(i==j)
printf("equal");
}
```

Ans: less

```
5.
void main()
{
float j;
j=1000*1000;
printf("%f",j);
}
```

1. 1000000
2. Overflow
3. Error
4. None

Ans: 4

6. How do you declare an array of N pointers to functions returning pointers to functions returning pointers to characters?

Ans: The first part of this question can be answered in at least three ways:

1. `char *(*(*a[N]))();`

2. Build the declaration up incrementally, using typedefs:

```
typedef char *pc; /* pointer to char */
typedef pc fpc(); /* function returning pointer to char */
typedef fpc *pfpc; /* pointer to above */
typedef pfpc fpfpc(); /* function returning... */
typedef fpfpc *pfpfpc; /* pointer to... */
pfpfpc a[N]; /* array of... */
```

3. Use the `cdecl` program, which turns English into C and vice versa:

```
cdecl> declare a as array of pointer to function returning
      pointer to function returning pointer to char
char *(*(*a[]))()
```

`cdecl` can also explain complicated declarations, help with casts, and indicate which set of parentheses the arguments go in (for complicated function definitions, like the one above).

Any good book on C should explain how to read these complicated C declarations "inside out" to understand them ("declaration mimics use").

The pointer-to-function declarations in the examples above have not included parameter type information. When the parameters have complicated types, declarations can *really* get messy. (Modern versions of `cdecl` can help here, too.)

7. A structure pointer is defined of the type `time_t`. With 3 fields `min`, `sec` `hours` having pointers to integers.

Write the way to initialize the 2nd element to 10.

8. In the above question an array of pointers is declared.

Write the statement to initialize the 3rd element of the 2 element to 10;

```
9.
int f()
void main()
{
```



```
f(1);
f(1,2);
f(1,2,3);
}
f(int i,int j,int k)
{
printf("%d %d %d",i,j,k);
}
```

What are the number of syntax errors in the above?

Ans: None.

```
10.
void main()
{
int i=7;
printf("%d",i++*i++);
}
```

Ans: 56

```
11.
#define one 0
#ifdef one
printf("one is defined ");
#endif
printf("one is not defined ");
```

Ans: "one is defined"

```
12.
void main()
{
int count=10,*temp,sum=0;
temp=&count;
*temp=20;
temp=&sum;
*temp=count;
printf("%d %d %d ",count,*temp,sum);
}
```

Ans: 20 20 20

13. There was question in c working only on unix machine with pattern matching.

14. what is alloca()

Ans : It allocates and frees memory after use/after getting out of scope

15.

```
main()
{
static i=3;
printf("%d",i--);
return i>0 ? main():0;
}
```

Ans: 321

16.

```
char *foo()
{
char result[100];
strcpy(result,"anything is good");
return(result);
}

void main()
{
char *j;
j=foo()
printf("%s",j);
}
```

Ans: anything is good.

17.

```
void main()
{
char *s[]={ "dharma","hewlett-packard","siemens","ibm"};
```

```
char **p;  
p=s;  
printf("%s",++*p);  
printf("%s",*p++);  
printf("%s",++*p);  
}
```

Ans: "harma" (p->add(dharma) && (*p)->harma)
"harma" (after printing, p->add(hewlett-packard) &&(*p)->harma)
"ewlett-packard"

[Back to top](#)

Future Software

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

- **Written Test**

The written test is purely technical and mostly covers mainly computer engineering related subjects. The paper is multiple choice with negative marking. It consists of some 25 questions to be done in 1 hour. The questions are based on subjects such as Data Structures, Networking, Digital Circuits and Logic Design, C, Operating Systems, Automata Theory, Basic Communications, Compiler Design.

The following sets of questions are available

[**Click here to see the sample test.**](#)

[**Back To The Top**](#)

- **Interview**

The test is followed by a technical interview. The interview is reasonably tough. The interviewers generally lay stress on Operating Systems, C and Networks. For the frequently asked questions please refer to our [interview section](#).

The technical interview also entails the HR interview which is quite general. For frequently asked HR questions please refer to our [interview section](#).

[**Back To The Top**](#)

- **Profile**

Established in the year **1985**, **Future Software Ltd.** are providers of **communications software products and services** in emerging technology areas to the global communications industry. The company's **exclusive focus on communications software** has enabled them today to be one of the leading independent software companies worldwide, in this field. Future Soft's corporate headquarters are in Chennai and its **subsidiary in USA - Future Communications Software**, markets and supports its products and services to the **North American and European markets**.

Future Software is today, an organization of more than 300 engineers, managed by a team of professionals with extensive experience in software engineering and project management. Future Software Ltd. is a **knowledge organization** accelerating the development of advanced communications technologies through a commitment to partnership and research.

The company has long term partnerships with its existing clientele and its customer list includes many of the top 25 global communication companies. Future Software Ltd. has been assessed at **SEI CMM Level 4**.

The company is offering a remuneration of **2.7 lacs to 3.2 lacs** per annum.

For more information about this company visit their homesite at www.futsoft.com

[**Back To The Top**](#)

Future Software Sample Test Paper

[Home](#)
[Back To FutureSoft Page](#)

1. $S \rightarrow AB|AS$
 $A \rightarrow a|aA$
 $B \rightarrow b$

What is the grammar accepted by the above?

Ans. aa^*b

2. How many address lines are needed to address a 64Kb segment with each register storing upto 512 bytes.

Ans. 14 address lines

3. Find the expression representing the following K-map

1		1	1
	1	1	
1		1	1

4. For the POS form of the expression given below

$$\bar{X}.Y.\bar{Z} + X.\bar{Y}.Z + X.(Y + Z)$$

5. In a computer system the ROM :

- (a) contains boot software
- (b) is permanent

- (c) Both of the above
- (d) None of the above

Ans. (c)

6. The binary equivalent of 3B7F is

Ans. 0011 1011 0111 1111

7. The register used by the shift reduce passing method is

Ans. Stack

8. A microprogram can be defines as to consist of

Ans. A primitive operation

9. Find the output for the following C program

```
int array[4][4] = { 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16};
for (i=2;i<0;i--)
    for (j=2;j<=0;j--)
        printf("%d", arr[i][j]);
```

10. Find the output for the following C program

```
#include<stdio.h>
void main()
{ int i,x,sum=0;
  int arr[6]=[1,2,3,4,5,6]
  for (i=0;i<4;i++)
    sum+ = func(arr[i]);
  printf("%d", sum);
}
```

```
func(int x)
{ int val,x;
  val = 2;
```

```
return(x+ val++);  
}
```

11. Given the following data:

- Process P1 takes 2 seconds
- Process P2 takes 3 seconds
- Process P3 takes 4 seconds
- Process P4 takes 1 second
- Process P5 takes 6 seconds

Find the average time in case of shortest job first (SJF) scheduling.

12. Given a string STOCK and a stack of size 4.

Which of the following strings cannot be generated using this stack.

- (a) TSOCK
- (b) TOSKC
- (c) STOCK
- (d) TKOSC
- (e) None of these

13. Inversion of a matrix will take which of the following time complexities?

- (a) $O(n)$
- (b) $O(n^2)$
- (c) $O(\log n)$
- (d) $O(n^3)$
- (e) None of these

14. A drum rotates at 4000 rpm. What is its average access time.

15. What range of integral values can be stored using 32 bits?

16. Where are the following variables stored

- Automatic

- Global
- Static

17. If a layer 4 transfers data at the rate of 3000 bytes/sec.
What will be the size of data block transferred by Layer 2

18. What is the greatest disadvantage of dynamic RAM over static RAM

Ans. High Power and need to refresh every 2 ms.

19. What happens when the CPU gets interrupted?

20. Find the Postfix of the following string

$(a + b) * ((-d) * f(ab - cd))$

21. $E \rightarrow E + E \mid E * E \mid E/E \mid E - E \mid \dots$ then which is correct

- (a) It is ambiguous
- (b) It is inherently ambiguous
- (c) It is non inherently ambiguous
- (d) None of the above

22. If there are n nodes and K edges in a graph then what is the order of traversing

Ans. $O(n^2)$

23. A graph is represented as an adjacency list with n vertices and e edges
What is its time complexity

Ans. $O(n + e)$

24. An array with address KV[a] had n elements. Which of the following correctly addresses the ith element of the array.

- (a) $KV(a) - 2a + 2i$
- (b) $KV(a) + 2i$
- (c) $KV(a) - 2a$
- (d) None of these

25. Give an example of a primitive instruction in microprocessors.

26. A computer has 8 bit data bus and 16 bit address line.

How many machine cycles will it take to store the contents to a memory location?

27. Where is a variable defined in a function stores?

Ans. Process Swappable Area

28. For the following C program

```
int d=0;
for(int i=0;i<31;i++)
  for(int j=0;j<31;j++)
    for(int k=0;k<31;k++)
      if (((i+j+k) % 3)==0)
        d=d+1;
```

Find value of d

29. $e = \langle e+e \rangle \mid \langle e*e \rangle \mid \langle (e) \rangle \mid \langle id \rangle$

What forms do the expressions created by the above definition fit in

Ans. All arithmetic expressions

30. If a set of numbers are in sorted order then which of the following sorting method is best

Ans. Bubble Sort

31. A magnetic tape is similar to which of the following structures

Ans. List

32. The s/n id 3 dB Find the capacity of the line.

[Back to top](#)

Geometrics - GSSL

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of three sections.

Section 1 is an aptitude section and consists of MCQ's

Section 2 is basic computer awareness and also has MCQ's

Section 3 is a C Test which is a subjective test

[Click here to see the sample test](#)

[Back To The Top](#)

• Interview

The test is followed by an interview. One must prepare questions related to **basic geometry**. Questions like proving the sum of all angles of a triangle is 180 degrees, proving that an angle of 90 degrees is subtended have been asked. Besides these, questions based on **C** and **Computer graphics** are also asked. For details on the frequently asked questions please refer to our [Interview section](#).

The HR interview which follows the technical interview. For details on frequently asked questions in the HR section please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

Geometric Software Solutions is a company specializing in providing software technology and development services to **CAD/CAM/CAE/PDM** vendors world-wide. Geometric Software offers expertise in **solid and surface modeling, feature recognition, data translators, ACIS** and **Parasolid geometry kernels, PDM, nesting, and machining**.

Geometric was established in **1994**. Prior to that, the activities were a part of a division of Godrej & Boyce Mfg. Co. Ltd. Geometric is organized into **Component Software, Customer Services, OEM Applications** and **Plug-in Applications**.

For more information, visit the company's website at www.geometricsoftware.com

[Back To The Top](#)

Geometrics Sample Test

[Home](#)

[Back To Geometrics Page](#)

SECTION 1- APTITUDE SECTION

Directions for questions 1-3: Complete the sequence given below

1. 5, 5, 13, 13, 21, 21, __

Ans: 29

2. 0, 7, 26, 63, 124, __

Ans: 215 (*hint: n^3-1*)

3. 1, 3, 5, 7, __

Ans: 9

4. If a person walks at $\frac{4}{5}$ th of his usual speed he reaches 40min late. If he walks at his usual speed for how much time does he travel ?

5. Two trains A&B start at opposite points 120km apart at 60kmph. A fly starting along with train A at 120kmph reaches B then returns back to touch A and continues the two and fro movement. By the time two trains meet how much distance would the fly have travelled?

6. In a class 80% have passed in english, 70% passed Hindi, 10% didn't pass either. If 144 students passed both the subjects. What is the total strength of the class?

7. Find the least number which when divided by 7 gives the remainder 6, when divided by 6 gives remainder 5, when divided by 5 gives remainder 4 and so on ?

8. If a man stands in front of sun what is the first letter of the direction which is left to him ?

9. (a) A square is to circle as cube is to
(b) Success is to failure as joy is to

10. (a) Give the synonyms of the following words

- (i) Joy
- (ii) Inert
- (iii) Jolly

(b) Give the opposites of the following words

- (i) genuine
- (ii) command
- (iii) essential

11. Find the odd man out in the following sets

- (i) Tiger, Elephant, King Cobra, Dolphin
- (ii) Oasis, Lake, Pool, Valcano
- (iii) Bengali, Karnataka, Mumbai, Kashmir
- (iv) Lapidary, Lancet, Scapel, Surgeon
- (v) Requiem, Dirge, Elegy, Paeon

12. I bought a cycle 2 days before my birthday and I broke it 3 days after my birthday. The day I broke it is Mar 2, 1956?

Directions: The following questions are to be answered on the basis of the above given statement

i) When is my birthday?

Hint: Keep in mind that 1956 was a leap year.

(ii) What is my age on Mar 4th, 1980?

(iii) My nephew is born exactly 20 years after me. If I turned 20 in 1960, what is the nephew's age on Feb 28th 1988?

13. Monday Aug 25, 96 :

Hostess: "Mr A, you forgot your umbrella during the party on last Friday. I expected you to collect it on your visit on Wednesday as I plan to leave on this Friday."

Directions: The following questions are to be answered on the basis of the above given statement

(i) When did A miss the umbrella?

(ii) When is A supposed to collect it?

(iii) When does K leave?

14. What is my father's son's son to my son?

Ans. Cousin brother

15. On cutting a solid parabola what would be generated

Ans: Cone

16. What is Eulers formula?

Ans: $F+V-E=2$; where

$F \Rightarrow$ faces; $V \Rightarrow$ vertices; $E \Rightarrow$ number of edges

17. What is Newton Raphson method used for?

Ans: To find the root of $f(x) = 0$;

18. How many tangents can be drawn on three circles if they don't lie within each other ?

19. $xy - x + 2y = 6$ equation is shifted to form equation $xy=c$ what is c ?

20. When x is real what is the least value of $(x^2-6x+5)/(x^2+2x+1)$

21. When an object like cube or sphere is seen along x, y, z axis we get the same. Apart from these suggest another object which has similar characteristics as that mentioned above?

Ans: Triangular prism

22. When an object is seen from the front side we can see two concentric squares and top view also without any hidden lines. Draw the side view.

23. In common parlance, $A \Rightarrow B$ means what

Ans: if A is true B has to be true

23. If A is not invertible and $BA = I$ is not possible, what is implied by this?

Ans: Determinant is Zero.

24. What is a free body diagram used for

25. A die is thrown twice what is the probability that you get same number

26. The sum of two numbers is 55. What is the larger number?

SECTION 2-TECHNICAL SECTION

1. Convert 251 in base 10 to octal(base 8)?

2. How much information can be stored in 1 byte of a IBM pc compatible?

3.What is the language used for Artificial Intelligence

Ans: lisp

4. Swap two variables without using temporary variable

Ans: $a = a + b$; $b = a - b$; $a = a - b$;

5.Which is not the operating system ?

Ans: BIOS

6. What is the optimum number of operations for $2x^3 + 3x^2 + 5x + 5$?

7. In the fortran language which of the following is true.

(i) fortran uses call by value

(ii) fortran is object oriented

(iii) fortran allows use of function overloading

Ans. (i)

8. When a program is compiled what does it produce?

Ans: Source code is converted to object code

9. What is the difference between function overloading and function overriding?

10. What is the character set used in JAVA 2.0 ?

Ans: Unicode

SECTION 3 - C TEST

1. What is the mistake in the following program segment ?

```
f()
{
int a;
void c;
f2(&c,&a);}
```

2. a=0;
b=(a=0)?2:3;

- a) What will be the value of b and why ?
- b) If in first statement a=0 is replaced by a = -1, b= ?
- c) If in second statement a=0 is replaced by a = -1, b=?

3. char *a[2];
int const *p;
int *const p;
struct new { int a;int b; *var[5] (struct new)}

Describe the statements in the above given construct ?

4. f()
{
int a=2;
f1(a++);

```

    }
f1(int c)
{
printf("%d", c);
}

```

What is the value of c ?

```

5. f1()
{
    f(3);
}
f(int t)
{
switch(t);
{
case 2: c=3;
case 3: c=4;
case 4: c=5;
case 5: c=6;
default: c=0;
}
}

```

What is the value of c?

6. What is the fallacy in the following program segment ?

```

int *f1()
{
int a=5;
return &a;
}
f()
int *b=f1()
int c=*b;
}

```

7. Give the C language equivalents of the following

- Function returning an int pointer
- Function pointer returning an int pointer
- Function pointer returning an array of integers
- Array of function pointer returning an array of integers

8. Find the fallacy in the following program segment?

```
int a;
short b;
b=a;
```

9. Define function ? Explain arguments in functions ?

10. How does C pass variables to a function ?

11. Explain the following program segment.

```
f(){
int *b;
*b=2;
}
```

12. Explain binary trees and their use ?

13. Draw the diagram showing the function stack, illustrating the variables that were pushed on the stack at the point when function f2 has been introduced .

```
type def struct
{ double x,double y} point; }
main( int argc, char *arg[3])
{ double a;
int b,c;
f1(a,b); }
```

```
f1(double x, int y)
{point p;
stack int n;
f2(p,x,y)
}
```

```
f2(point p, double angle)
{ int i,j,k,int max;
}
```

[Back to top](#)

HCL System Software

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of **60 questions** which are divided into **4 sections** .The **total duration** of the test is **90 minutes**. **There is negative marking** .

The sectionwise distribution of the questions is as follows:

Section#1

This section consisting of **15 questions** is based on **general computer awareness**.

In this section:

A correct answer carries 1 mark

1/4 marks will be deducted for a wrong answer.

Section#2

This section also consists of **15 questions**. Questions based on **C language** are asked.

In this section:

A correct answer carries 1 mark

1/4 marks will be deducted for a wrong answer.

Section#3

A total of **10 questions** based on **pointers and structures in C** are asked in this section. You can also be asked one or two questions on **JAVA** also.

In this section:

A correct answer carries 2 marks

1 mark will be deducted for a wrong answer.

Section#4

This is the **aptitude section** consisting of **20 questions**. Simple maths questions are asked which are very easy. The logical questions asked are similar to the ones given in the Barron's GRE book.

In this section:

A correct answer carries 2 marks

1/4 mark will be deducted for a wrong answer.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

At the moment we do not have much informaton about the interview though the candidate may be required to go through **both technical and HR interviews**.

For further details and general tips on the HR interview, please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

HCL Technologies offers world class technology solutions for the emerging network centric world. It provides a range of technology and software engineering services including **Technology Development Services, Software Engineering Services, Application Engineering Services, Networking Services** .

These services are predicated on a rich technology heritage. Experience with the development and application of technologies like Internet and E-Commerce, Embedded software, Networking and telecom protocols, VLSI design etc.

Skills on a wide variety of computing platforms from Open Systems to Enterprise Servers based on mainframes expertise, object oriented and legacy system architecture, methodologies in addition to distinguished R&D background uniquely positions us as a preferred provider of technology and software engineering services in the emerging network centric world.

HCL Technologies has established dedicated offshore software factories with clients such as **Bankers Trust (Australia), Lexis Nexis (US) , Southern California Edison (US), A Networking Major (US)**

HCL Technologies operates through **29 offices in 14 countries** in **United States, Europe, Japan, Asia Pacific**

The company employs **3300 IT professionals worldwide**.

HCL Technologies holds 100% stake in Intelicent (former HCL James Martin Inc.), a US based methodology consulting led Services Company. The company also has a 100% subsidiary in India, HCL Comnet Systems and Services Ltd, which provides networking services.

For more information about this company visit their homesite at www.hcltechnologies.com

[Back To The Top](#)

HCL System Software Sample Test Paper

[Home](#)

[Back To HCL Page](#)

Section A

1. Which of the following involves context switch,

- (a) system call
- (b) privileged instruction
- (c) floating point exception
- (d) all the above
- (e) none of the above

Ans: (a)

2. In OST, terminal emulation is done in

- (a) sessions layer
- (b) application layer
- (c) presentation layer
- (d) transport layer

Ans: (b)

3. For a 25MHz processor , what is the time taken by the instruction which needs 3 clock cycles,

- (a) 120 nano secs
- (b) 120 micro secs
- (c) 75 nano secs
- (d) 75 micro secs

4. For 1 MB memory, the number of address lines required,

- (a) 11
- (b) 16

- (c) 22
- (d) 24

Ans. (b)

5. Semaphore is used for

- (a) synchronization
- (b) dead-lock avoidance
- (c) box
- (d) none

Ans. (a)

6. Which holds true for the following statement

class c: public A, public B

- a) 2 member in class A, B should not have same name
- b) 2 member in class A, C should not have same name
- c) both
- d) none

Ans. (a)

7. Question related to java

8. OLE is used in

- a) inter connection in unix
- b) interconnection in WINDOWS
- c) interconnection in WINDOWS NT

9. Convert a given HEX number to OCTAL

10. Macros and function are related in what aspect?

- (a) recursion
- (b) varying no of arguments
- (c) hypochecking
- (d) type declaration

11. Preproconia.. does not do which one of the following

- (a) macro
- (b) conditional compilation
- (c) in type checking
- (d) including load file

Ans. (c)

12. Piggy backing is a technique for

- a) Flow control
- b) Sequence
- c) Acknowledgement
- d) retransmission

Ans. (c)

13. In signed magnitude notation what is the minimum value that can be represented with 8 bits

- (a) -128
- (b) -255
- (c) -127
- (d) 0

14. There is an employer table with key fields as employer number data
in every n'th row are needed for a simple following queries will get required results.

- (a) select A employee number from employee A , where exists from employee B where A employee no.
 $\geq B$
employee having $(\text{count}(\ast) \bmod n) = 0$
- (b) select employee number from employee A, employee B where A employee number $\geq B$ employ number
group by employee number having $(\text{count}(\ast) \bmod n) = 0$

- (c) both (a) & (b)
- (d) none of the above

15. Type duplicates of a row in a table customer with non uniform key field customer number you can see

- a) delete from costomer where customer number exists(select distinct customer number from customer having count)
- b) delete customer a where customer number in b rowid
- c) delete customer a where custermor number in(select customer number from customer a, customer b)
- d) none of the above

Section B

1. Given the following statement

```
enum day = { jan = 1 ,feb=4, april, may }
```

What is the value of may?

- (a) 4
- (b) 5
- (c) 6
- (d) 11
- (e) None of the above

2. Find the output for the following C program

```
main
{int x,j,k;
j=k=6;x=2;
x=j*k;
printf("%d", x);
```

3. Find the output for the following C program

```
fn f(x)
{ if(x<=0)
```

```
return;
else f(x-1)+x;
}
```

4. Find the output for the following C program

```
i=20,k=0;
for(j=1;j<i;j=1+4*(i/j))
{ k+=j<10?4:3;
}
printf("%d", k);
```

Ans. k=4

5. Find the output for the following C program

```
int i =10
main()
{int i =20,n;
for(n=0;n<=i;)
{int i=10;
i++;
}
printf("%d", i);
```

Ans. i=20

6. Find the output for the following C program

```
int x=5;
y= x&y
```

7. Find the output for the following C program

```
Y=10;
if( Y++>9 && Y++!=10 && Y++>10)
{printf("%d", Y);
else
```

```
printf("%d", Y);  
}
```

Ans. 13

8. Find the output for the following C program

```
f=(x>y)?x:y
```

- a) f points to max of x and y
- b) f points to min of x and y
- c) error

Ans. (a)

9. What is the sizeof(long int)

- (a) 4 bytes
- (b) 2 bytes
- (c) compiler dependent
- (d) 8 bytes

10. Which of the function operator cannot be over loaded

- (a) <=
- (b) ?:
- (c) ==
- (d) *

11. Find the output for the following C program

```
main()  
{int x=2,y=6,z=6;  
x=y==z;  
printf("%d",x)  
}
```

Section C (Programming Skills)

Answer the questions based on the following program

```

STRUCT DOUBLELIST
{ DOUBLE CLINKED
INT DET; LIST VOID
STRUCT PREVIOUS; (BE GIVEN AND A PROCEDURE TO DELETE)
STRUCT NEW; (AN ELEMENT WILL BE GIVEN)
}
DELETE(STRUCT NODE)
{NODE-PREV-NEXT NODE-NEXT;
NODE-NEXT-PREV NODE-PREV;
IF(NODE==HEAD)
NODE
}

```

Q. In what case the prev was

- (a) All cases
- (b) It does not work for the last element
- (c) It does not for the first element
- (d) None of these

Answer the questions based on the following program

```

VOID FUNCTION(INT KK)
{ KK+=20;
}
VOID FUNCTION (INT K)
INT MM,N=&M
KN = K
KN+ -=10;
}

```

Q. What is the output of the following program

```
main()
{ int var=25,varp;
varp=&var;
varp p = 10;
fnc(varp)
printf("%d%d,var,varp);
}
```

- (a) 20,55
- (b) 35,35
- (c) 25,25
- (d)55,55

Section D

1. a=2, b=3, c=6

Find the value of $c/(a+b)-(a+b)/c$

2. What does the hexanumber E78 in radix 7.

- (a) 12455
- (b) 14153
- (c) 14256
- (d) 13541
- (e) 131112

Ans. (d)

3. 10 : 4 seconds :: ? : 6 minutes

Ans. 900

4. Q is not equal to zero and $k = (Q \times n - s)/2$. What is n?

- (a) $(2 \times k + s)/Q$
- (b) $(2 \times s \times k)/Q$
- (c) $(2 \times k - s)/Q$

(d) $(2 \times k + s \times Q)/Q$

(e) $(k + s)/Q$

5. From the following statements determining the order of ranking

- M has double the amount as D
- Y has 3 rupees more than half the amount of D

Ans. Data insufficient

Questions 6 - 10 are to be answered on the following data

- A causes B or C, but not both
- F occurs only if B occurs
- D occurs if B or C occurs
- E occurs only if C occurs
- J occurs only if E or F occurs
- D causes G, H or both
- H occurs if E occurs
- G occurs if F occurs

6. If A occurs which of the following must occur

- I. F and G
- II. E and H
- III. D

- (a) I only
- (b) II only
- (c) III only
- (d) I, II, & III
- (e) I & II (or) II & III but not both

Ans. (e)

7. If B occurs which must occur

- (a) D
- (b) D and G

- (c) G and H
- (d) F and G
- (e) J

Ans. (a)

8. If J occurs which must have occurred

- (a) E
- (b) either B or C
- (c) both E & F
- (d) B
- (e) both B & C

Ans. (b)

9. Which may occur as a result of cause not mentioned

- I. D
- II. A
- III. F

- (a) I only
- (b) II only
- (c) I & II
- (d) II & III
- (e) I, II & III

Ans. (c)

10. E occurs which one cannot occur

- (a) A
- (b) F
- (c) D
- (d) C
- (e) J

Ans. (b)

[Back to top](#)

Hexaware Ltd

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test for **Hexaware** consists of three sections. The first section is a **Computer Awareness Section**. The second section is an **Aptitude Section** which has questions on **basic mathematics**. In the third section a **C program** is given and the output of the program is to be found. This section has the maximum weightage.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it may consist of both technical grilling and HR interview. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

Hexaware is a rapidly growing global IT solutions company having operations in North America and Europe, its headquarters at **Chennai**, India and two development centers at **Chennai** and **Mumbai**. A

full-fledged software development center at **Princeton** and regional offices in **Chicago, San Francisco, Montreal** and **UK**.

The company is working in fields like **Application Integration** and **E-Commerce Enablement** among others. Its technology alliance partners include **IBM, Vitria, BEA Systems, Constellar, Sterling Commerce** and **Harbinger**. The vertical focus areas include **banking, insurance** and the **airline industries**. An **ISO 9001** company, Hexaware has been assessed at **SEI CMM Level 4**.

Hexaware's list of clients include **Air Canada, Alliance Capital, Princeton University, TransAmerica, EMI Music, Equitable, Franklin Mint**, and **Blue Cross/Blue Shield**.

For more information about this company visit their homesite at www.hexaware.com

[Back To The Top](#)

Hexaware Sample Test

[Home](#)

[Back To Hexaware Page](#)

COMPUTER AWARENESS SECTION

Directions for questions 1-10: Expand the following terms

1. ODBC

Ans. Open Database Connectivity.

2. HTML

Ans. Hyper Text Markup Language

3. RISC

Ans. Reduced Instruction Set Computing

4. ASCII

Ans. American Standard Code For Information Interchange

5. ANSI

Ans. American National Standard Institute.

6. XML

Ans. Extended Markup Language

7. FLOPS

Ans. Floating Point Operating Per Second

8. SQL

Ans. Sequential Query Language

9. QBE

Ans. Query By Example

10. ALE

Ans. Address Latch Enable

11. What is lagging in DBMS ?

Ans. Reduced Redundancy.

Directions 12 to 20: For the following questions find the odd man out

12. Unix
OS/2
CMOS
MSDOS

Ans. CMOS

13. Oracle
Informix
Sybase
LISP

Ans. LISP

14. Laser
Inkjet
Dotmatirx
Mouse

Ans. Mouse

15. Dir
Cls
Csh
Copy

Ans. Csh

16. Bit
Byte
Nibble
Digit

Ans. Digit

17. Hard Disk
Floppy Drive
CD ROM
Cache

Ans. Cache

18. SQL
QUEL

QBE
ORACLE

Ans. Oracle

19. C++
JAVA
VC++
PASCAL

Ans. PASCAL

20. Projection Operation
Selection Operation
Intersection
Set Difference Operation

Ans. Intersection

21. Which of the following is a universal gate ?
(a) OR
(b) AND
(c) XOR
(d) NOR

Ans. NOR

22. The default back end of the VB is
(a) Oracle
(b) Sybase
(c) Informics

Ans. Sybase

23. What is meant by Superconductivity?

Ans. No resistance

24. Viscosity

Ans. Friction

25. What is the Lock Based Protocol used for?

Ans. Concurrency Control in DBMS

Directions for question 25 to 32: Convert the decimal numbers on the left to the required form

25. 9's complement of 28

Ans. 71

26. Binary of 58

Ans. 111010

27. Octal of 359

Ans. 547

28. Hexadecimal of 650

Ans. 28A

29. BCD of 18

Ans. 0001 1000

30. BCD of 34.8

Ans. 0011 0100.1000

31. Excess-3 code of 6

Ans. 1001

32. Excess-3 code of 9

Ans. 1100

33. If $Ax + By = 1F_{16}$; $Cx + Dy = 25_{10}$. Find the value of x and y

34. Semaphore is used for

- (a) synchronization
- (b) dead-lock avoidance
- (c) box
- (d) none

Ans. a

35. For addressing 1 MB memory, the number of address lines required,

- (a) 11
- (b) 16
- (c) 22
- (d) 24

Ans. b

36. Which of the following remains in memory temporarily

- (a) Resident portion of COMMAND.COM

- (b) Transient portion of COMMAND.COM
- (c) API
- (d) Disk BIOS

Ans. b

37. Pick the odd man out

- (a) IO.SYS
- (b) MSDOS.SYS
- (c) ROM-BIOS
- (d) COMMAND.COM

Ans. c

38. OS/2 is a

- (a) Single User OS
- (b) Multi User OS
- (c) Multi Tasking OS
- (d) None of these

Ans. c

39. Bootstrap loader program is a program belonging to

- (a) ROM startup software
- (b) ROM extension software
- (c) ROM BIOS software
- (d) ROM Basic software

Ans. a

40. The entry of starting cluster of a file is present in

- (a) Boot Parameters
- (b) Directory
- (c) FAT
- (d) Partition Table and master boot program

Ans. c

APTITUDE SECTION

Directions for questions 1-6: Find the correct meaning of the following phrases

1. A man of letters

2. A man of straw
3. To be in the air
4. To bite the dust
5. Man of few words
6. Penny wise pound foolish
7. Find the remainder when 333666777888999 divided by 3 or 9 or 11 ?
8. Which is the biggest perfect square amongst the following
15129, 12348, 23716, 20736
9. The greatest area of the following
 - (a) The radius of circle is 4
 - (b) The square of diagonal is 4
 - (c) The square of side is 4
10. The area of the maximum size of the circle described from the 10 square inch square?
11. In the series 0, 3, 8, 15,___ What is the next number?
12. $X < 0$, $Y \neq 0$ then what is the possibility that the result is always positive?
Ans. xy
13. 3 red and 4 blue balls are in a basket. A member of PPTeam is drawing balls from the basket. What is the probability of getting the 3 red balls simultaneously?
14. Let $ax^2 + bx + c = 0$
If the sum of the equal roots is equal to the product of the same roots. Then which of the following hold true
 - (a) $a + b = 0$
 - (b) $a = 0$
 - (c) $c = 0$
 - (d) $a + c = 0$

15. A fold density is 19 times greater than the water and for copper it is 9 times. At what ratio you can mix gold and copper to get 15 times denser than water.

Ans. 3 : 2

16. Find the value of $(1.99)^2$

Ans. 3.9601

17. There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require to finish the work.

Ans. 24

18. 2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many days does the second person take to finish the job?

Ans. 12 days

19. A 4" cube is painted in all its faces and then it is cut down into 1" blocks. How many 1" blocks are there even without a single face being painted?

Ans. 8

20. A cylinder is inserted in a sphere $d/h = 2/3$. Find the surface area of the cylinder ?

21. In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there?

Ans. 24.

22. What is the angle of degree suspended when two hands of clock showing the time 2.30.

Ans. 105 degrees

23. The age difference between two brothers is 3 years. After 6 years the ratio between the age is 9:8. What are their ages?

Ans. 21 and 18

24. A person's salary is getting reduced by 20%. What percentage should be added to get back his

original salary?

Ans. 25%

25. Two persons start at the same point, walk in opposite directions with 5km/hr and 5.5km/hr respectively.

What is the distance separated after 2 and half hrs?

Ans. 26.25 (approx)

26. A person starts walking at a speed of 5km/hr through half the distance, rest of the distance he covers with a

speed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans. 40km.

27. Initially two cups of same volume are present with milk filled upto $\frac{3}{5}$ th and $\frac{4}{5}$ th of their volumes. Water is then filled. Then two mixtures are mixed. Find the ratio of water to milk in the mixture.

Ans. 3 : 7

28. 16 grams of radioactive material decays into 8 grams in 10 years. How long will it take to decay to 1 gram ?

Ans. 70 yrs.

29. In a rectangle the length is increased by of the original length . By what proportion should the width be reduced so that the area will be the same?

Ans. 33

30. Find the nth number in the series is 1, -3, 5, -7.____

Ans. $(-1)^n(2n-1)$

31. If a square is formed by the diagonal of the square as an edge, what is the ratio between the area?

Ans. 2

32. The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonals length?

Ans. 10

33. A cubical rectangular bar has the dimensions with the ratio 5 : 4 : 3. Its volume is 7500. What is the surface area of the bar?

Ans. 2350

34. In a class total 34 students, 16 are have a brother, 15 are have sisters, 9 students don't have either brothers or sisters. Find the number of students having both brother and sisters.

Ans. 6

35. A batsman scored 18 runs in his 18th innings and that makes his average 18. Find his average upto the 17th innings?

Ans. 19

36. 6 women can do 75 units of work in 8 days by working 5hrs/day. In how many days can 4 women do 30 units of work by working 8hrs/day ?

37. A persons salary iis decreased by steps of 20%, 15% and 10%. What will be the percentage decrease, if the salary is decreased in a single shot?

38. The ratio of the length : breadth : height of a cuboid is 5 : 4: 3, and the volume is 7500. What will be its surface area ?

39. If the circumference of a circle is 100 units, Then what will the length of the arc described by an angle of 20 degree ?

40. 3 persons started placementpapers with a capital of Rs.3000 . B invest Rs.600 less than A, C invest Rs.300 less than B. Then what is the share amount of B in a profit of Rs.886 ?

Directions for 41-50: Which of the following is the correct spelling for the word

41. supercede and supersede

42. recommend and reccomend

43. superitendent and superitendant

44. separate and seperate

- 45. succeed and suceed
- 46. coolly and cooly
- 47. despair and dispair
- 48. ridiculous and rediculous
- 49. indespensible and indepensible
- 50. tranquility or tranquillity

C TEST

Directions: For the given sample program give the output of the program(30 marks)

```
main()
{
    int a[]={ 2,4,6,8,10 };
    int i;
    change(a,5);
    for( i = 0; i <= 4; i++)
        printf("\n %d",a[i]);
}
change( int *b, int n){
    int i;
    for( i = 0; i < n; i++)
        *(b+i) = *(b+i) + 5;
}
```

[Back to top](#)

Hughes Software Systems

[Home](#)

[Sample Paper](#)

[Profile of the company](#)

• Written Test

At the moment we have just one paper of Hughes Software. The paper is **technical** based with a question or two of probability thrown in. Subjects stressed are Operating Systems, Data Structures, C Programming, Communications etc. We have given a rough idea on the kind of paper that you can expect. We are not providing you with the inputs of the interview for this company - but we hope to add it very shortly.

[Sample Paper1](#) [Sample Paper2](#)

[Back To The Top](#)

• Profile

Hughes Software Systems (HSS), **the #1 Communications Software company in India**, offers the full spectrum of communications related software services, products and solutions. With over 40 customers spread over the Americas, Europe and Asia, HSS focuses on providing solutions to Telecom/ Datacom Equipment Manufacturers, System Integrators and Communication Services Providers.

Setup in the year 1992, it is headquartered in a **state-of-the-art campus in Electronic City**, a New Delhi suburb. HSS has a dedicated Internet and ECommerce development center in **Bangalore, the Silicon Valley of India**.

Continued significant investments in R&D have positioned HSS at the forefront of emerging

communication technologies. The focus areas are Communication Protocols, Wireless Networks, Telecom/ Data Networks, Next Generation Networks, Intelligent Networks, Network Management, Internet and E-commerce.

Based on its strong expertise in all communication technologies and applications, HSS is involved in the design and development of Switching Systems, Mobile Satellite Communication Systems, Cellular Infrastructure, Access Networks, Enterprise Networking Solutions, Network Management Solutions, VoIP Solutions and E-Commerce and Internet based systems.

For more information about this company visit their homesite at www.hssworld.com

[Back To The Top](#)

Hughes Software System Sample

Test#1

[Home](#)[Back To Hughes Page](#)

1. Find the probability of getting a number with 7 between 100 and 999 (both inclusive).
2. There are 10 items in a box, out of which 3 are defective.
2 balls are taken one after the other.
What is the probability that both of them are defective?
3. Context free grammar is accepted by
 - a) finite automata
 - b) push down automata
 - c) two way bounded automata
 - d) both b and c
4. Which is not a memory management scheme?
 - a) buddy system
 - b) swapping
 - c) monitors
 - d) paging

Ans : c

5. Simplify the Karnaugh map given below and derive its expression in SOP form

-	1	1	-
1	-	-	1
1	-	-	1
-	1	1	-

6. Question on NAND gates implementation.
7. Definition of Context Sensitive Grammar
8. An identifier can start with a letter followed by any number of letter or digits .
9. With the following configuration:
8MB total memory, 256kb cache , 4kb is block size.
Using direct mapping, how many different physical memory blocks can be mapped on to the cache.
(a) 64 (b) 256 (c) 128
10. CSMA/CD is used in
 - a) token ring
 - b) FDDI
 - c) ethernet
11. In TCP/IP header, checksum contains
 - a) sum of all the words
 - b) ones complement of the data
 - c) ones complement of the sum of all the words
 - d) ones complement of the sum in ones complement
12. What is the maximum number of acknowledgements for a 4 bit sequence number in a sliding window protocol.
13. Which is a good way of representing variables in recursion
 - a) local variables
 - b) static variables
 - c) global variables
14. Given the following c program

```
func()
{
static int i = 10;
printf("%d",i);
i++;
}
```

What is the value of i if the function is called twice ?

15. Given the following c program

```
func(int *i, int*j)
{ *i=*i * *i;
  *j=*j* *j;
}

main()
{ int i = 5, j = 2;
  func(&i,&j);
  printf("%d %d", i, j);}
```

What is the output?

16. Given page table, page size and offset find the corresponding physical address ?

17. In a memory chip 4k size and 16bit words are to be stored.
No of address and data lines required is:

18. Identify in which pass of the 2 pass compiler are the following compiled

- 1) literals
- 2) address resolution
- 3) listing

19. Object code does not require

- a) relocation bits

- b) external names and place where they are located
- c) absolute address
- d) all the object codes

20. ARP is in reference to

- a) MAC to IP
- b) IP to MAC

21. Question on Balanced tree -

A balanced tree is given and a node is added at the leaf.
Find the no of unbalanced nodes?

22. What is the order of Hashing time:

- a) $O(1)$
- b) $O(n^2)$

23. Given that:

$s \rightarrow s + s ; s \rightarrow s * s ; s \rightarrow a$

Find the no of parse trees for $a+a*a+a$

- a) 4
- b) 5
- c) 6
- d) 7

24. Order of deleting a node from a linked list.
(pointer is to an arbitrary node)

- a) $O(1)$
- b) $O(n)$

25. A chocolate of size $n \times n$ is given and is to be made into pieces of size 1×1 .
At a time both horizontal and a vertical cut is done.
Find the order of complexity

- a) $O(n^2)$
- b) $O(n \log n)$
- c) $O(\log n)$

26. A directed graph is represented by adjacency list.

To find the complexity of indegree of the node. e - edge n - vertices

27) No of leaf nodes given. find the no of nodes with degree 2.

28) $AX = B$.

A is $m \times n$ and B is $m \times 1$

- a) there is a unique solution if rank of A is same as rank of augmented matrix $[A \ b]$
- b) there are multiple solutions

29. LXI sp,2099h

LXI b, 2012h

PUSH b

30. A and B are sets.

A 's cardinality is m and B 's is n where $m < n$

How many one to one mappings can be obtained.

- a) n^m
- b) n^{pm}
- c) mpn
- d) mcn

31. In scheduling algorithms which are logically executed but suspended

- a) preemptive
- b) SJF
- c) non preemptive
- d) all the above

32. I/O redirection is

- a) copying programs files through a pipe
- b) input files are created
- c) input file taken from existing ones
- d) none

33. Symmetric multiprocessing can be done in

- a) snoopy protocols
- b) cache coherence

34. In the dining philosophers problems to avoid dead lock

- a) 1 person will take left one and all other will take right one
- b) adjacent persons should not eat concurrently

35. In the process state cycle, which is the correct order

- a) timeout: ready -> running
- b) blocked: ready -> running

36. For converting infix expression to postfix what do we require

- a) operand stack
- b) operator stack

37. 0 is represented as both and negative and positive in

- a) ones complement
- b) twos complement
- c) two's complement has extra negative number

38. What is the difference between c and c++?

- a) In c++ we can define variables in the middle

b)dynamic scoping

39. Which of the following is correct

- a) Synchronous tranmission needs more badwidth than Asynchronous.
- b) Inasynchronous transmission , the time is associated with data itself.....

[Back to top](#)

Hughes Software System Sample

Test#2

[Home](#)

[Back To Hughes Page](#)

1. There was a circuit given using three nand gates with two inputs and one output.
Find the output.

- a) OR
- b) AND
- c) XOR
- d) NOT

Ans. (a)

2. Suggest a sorting algorithm which is efficient (in worst case) to 10 values

- a) Binary tree
- b) Selection
- c) Bubble
- d) Any of the above

3. What is the number of comparisons in the worst case to merge two sorted lists containing n elements each.

- a) $2n$
- b) $2n-1$
- c) $2n+1$
- d) $2n-2$

4. Integrated check value(ICV) are used as:

Ans. The client computes the ICV and then compares it with the senders value.

5. Question on client-server system using asynchronous request from the client

6. If a binary tree is constructed using nodes with two pointers each, how many null pointers does a tree with N nodes have

- a) $n-1$
- b) n
- c) $n+1$
- d) Depends on the number of edges

7. Which of following statements about heap is wrong

- a) An n element heap has height $\log n$ (base of log is 2)
- b) Smallest element of heap is always a leaf
- c) A array in reverse sorted order is a heap
- d) A heap can't contain any element more than once

8. When applets are downloaded from web sites , a byte verifier performs _____?

Ans. Status check.

9. For the following C program

```
void insert(key,r)
typekey key,data array r;
{extern int n;
if(n>=max) /*error table if full */
else r[n++].k=key;
}
```

This on executing, enables a

- a) Basic sequential search
- b) Binary search
- c) Interpolation search
- d) None

10. Find the output of the following C program

```
void f(char *p)
```

```
{p=(char *) malloc(6);  
strcpy(p,"hello");  
}
```

```
void main( )  
{char *P="bye";  
f(p);  
printf("%s",p);  
}
```

11. Time taken to access cache is 100ns and to access memory is 1000ns.
Hit ratio given. Find the average access time

12. Path testing is

- a) Black box testing strategy
- b) White box testing strategy
- c) An installation
- d) An environment

13. X:verification' asks are we building the right product
Y:validation' asks are we building the product right

14. Which one of the following can't be used to find an internet address given the domain name

- a) /etc/host
- b) NIS yellow pages
- c) DNS
- d) ARP

15. Flow control is necessary for the transport protocol layer due to the following reasons

- a) Unreliable link
- b) Congestion at receiver
- c) Packets out of sequence
- d) None of these

16. In public key encryption, if A wants to send a message to B so that no one else can read the message

then A encrypts the message using

- a) A's public key
- b) A's private key
- c) B's public key
- d) B's private key

17. Which of the following is not condition having a deadlock resource previous granted can be forcefully taken away from a process

- a) Resources need to be used in mutually exclusion fashion
- b) Process can request new resources, as they continue to hold on to old ones
- c) Here is a cycle in the resource allocation graph

16. An IP/IPX packet received by a computer using... having IP/IPX both how the packet is handled.

Ans. Read the, field in the packet header with to send IP or IPX protocol.

17. The range of the 32 bit number in two's complement form is _____

18. Cyclomatic complexity

```
{if((x=0) or (y=0))
p=0;
else
{p=x;i=1;
while(i!=y)
{p=p+x;
i=i+1; }
}
}
```

19. Activation record will contain the

- a) Storage for simple names
- b) Information about attributes for local names
- c) Return address
- d) All of the above

20. Global static variable within a file is intended to

- a) Localize swap
- b) Retain value persistently
- c) Define constant
- d) Fixed address in memory

21. Why is thread switch faster than a process switch

22. What is the binary equivalent of 41.6875

23. Checkpoint value will be calculated in

24. DHCP is used for

- a) IP address allocation
- b) dynamic host configuration protocol

25. For the following C program

```
int x(char *a)
{ a=(char *) malloc(10*sizeof(char));
*a="hello";
}
```

```
main()
{ char *a="new";
x(a);
printf("%s",a);
}
```

The output is

- a) Hello
- b) New

- c) Hello new
- d) Run time error

[Back to top](#)

i2 Technologies

[Home](#)[Sample Paper](#)[Interview](#)[Profile of the company](#)

• Written Test

For details of the paper pattern click on the sample test below. The sample paper given here is only partial but most of the problems will be on these patterns. Further references and expected problems have also been mentioned in the sample paper.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it consists mainly of technical grilling. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

i2 is a leading **B2B** and **e-commerce solution provider**. It has been globally active for the past **10 years** providing solution incorporating a complete supply chain model, marketplace-to-marketplace support and rich content management capabilities.

Headquartered in **Dallas, USA**, i2 has offices all across the globe including **Mumbai** and **Bangalore**.

For **more information** about this company visit their homesite at www.i2.com

[Back To The Top](#)

i2 Technologies Sample Test Paper

[Home](#)

[Back To i2 Page](#)

Q1.Convert 0.9375 to binary

- a) 0.0111
- b) 0.1011
- c) 0.1111
- d) none

Ans. (c)

Q2.(1a00 * 10b)/ 1010 = 100

- a) a=0, b=0
- b)a=0, b=1
- c) none

Ans. (b)

Q3. In 32 bit memory machine 24 bits for mantissa and 8 bits for exponent. To increase the range of floating point.

- a) more than 32 bit is to be there.
- b) increase 1 bit for mantissa and decrease 1 bit for exponent
- c) increase 1 bit for exponent and decrease one bit for mantissa

Q4.In C, "X ? Y : Z " is equal to

- a) if (X==0) Y ;else Z
- b) if (X!=0) Y ;else Z
- c) if (X==0) Y ; Z

Ans. (b)

Q5. From the following program

```
foo()
int foo(int a, int b)
{
    if (a&b) return 1;
    return 0;
}
```

- a) if either a or b are zero returns always 0
- b) if both a & b are non zero returns always 1
- c) if both a and b are negative returns 0

Q6. The following function gives some error. What changes have to be made

```
void ( int a,int b)
{
    int t; t=a; a=b; b=t;
}
```

- a) define void as int and write return t
- b) change everywhere a to *a and b to *b

Q7. Which of the following is incorrect

- a) if a and b are defined as int arrays then (a==b) can never be true
- b) parameters are passed to functions only by values
- c) defining functions in nested loops

Q8. include<stdio.h>

```
void swap(int*,int*);
main()
{
    int arr[8]={36,8,97,0,161,164,3,9}
    for (int i=0; i<7; i++)
```

```

        {
        for (int j=i+1; j<8;j++)
        if(arr[i]<arr[j]) swap(&arr[i],&arr[j]);
        }
    }
void swap(int*x,int*y)
{
    int temp; static int cnt=0;
    temp= *x;
    *x=*y;
    *y=temp;
    cnt++;
}

```

What is cnt equal to

- a) 7
- b) 15
- c) 1
- d) none of these

Q9. int main()
 {
 FILE *fp;
 fp=fopen("test.dat","w");
 fprintf(fp,'hello\n");
 fclose(fp);
 fp=fopen ("test.dat","w");
 fprintf (fp, "world");
 fclose(fp);
 return 0;
 }

If text.dat file is already present after compiling and execution how many bytes does the file occupy ?

- a) 0 bytes
- b) 5 bytes
- c) 11 bytes
- d) data is insufficient

```

Q10.  f1(int*x,intflag)
        int *y;
        *y=*x+3;
        switch(flag)
        {
            case 0:
                *x=*y+1;
                break;
            case 1:
                *x=*y;
                break;
            case 2:
                *x=*y-1;
                break;
        }
        return(*y)

        main()
        {
            *x=5;
            i=f1(x,0); j=f1(x,1);
            printf("%d %d %d ",i,j,*x);
        }

```

What is the output?

- a) 8 8 8
- b) 5 8 8
- c) 8 5 8
- d) none of these

Q12. A function is like this

```

swap( int a,int b)
{
    int temp;
    temp=a;
    a=b;
    b=temp;
}

```

What will happen if we put *a and *b inplace of a & b ?

Q13.To increase The Range of a Floating point Member what should be done?

Ans. Mantissa should be decreased and exponential should be increased

Miscellaneous Notes

Other Problems in C included usage of Select Case, Bit-Wise Operators, Call By Reference/By Value, Pointers, Files etc.

Also questions on DBMS (SQL queries), Logic Gates & Design can be asked

Part Two

One Big Question (20 Marks , 20 MIN.)

Q. Write a program in C++ (or in C) for the following Data.

A school Trust That manages many schools in a city has decided to merge two of its branches by moving all the students of different standards and divisions from both the branches to their newly acquired complex. How ever, when moving it is ensured that every student's standard and division remains same. Thus a student of 7F (standard 7,division F) from one of the branches will continue to be in 7F in the new school complex.

Given that the student strength of both the branches in the form of a list of division and strength pairs terminated by a \$ sign as shown in the example as follows.....

1A 30 1B 28 2A 35 2B 38 2C 36 2D 34 3A 32 3B 34 \$

1A 25 1B 24 1C 26 1D 25 1E 22 2A 40 2B 42 3A 35 \$

Write a program to read the above data and output the student strength of the new larger school in the same format.

Your Program

1) Must not assume any limit on the no. of divisions or classes in schools.

- 2) Must not output divisions with 0 strength.
- 3) Must use dynamic structures.

[Back to top](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• **Written Test**

The written test consists of **two sections each of 45 minutes** duration.

Section#1

This is the **aptitude section** consisting of **45 questions** to be attempted in **45 minutes**. As is in all the exams, this section is based on the **MBA pattern** of examination.

Section#2

This is the **technical section**. There is a **seperate paper for hardware and software**. **Candidates have to mention beforehand** whether they want to write the software or the hardware paper.

This section also carries **45 questions** to be completed in **45 minutes**.

We are providing you with some of the questions asked in the exam, so that you have an idea of what to expect in the written test.

[**Click here to see the sample test.**](#)

[Back To The Top](#)

• **Interview**

There are **two rounds** of interviews, viz., the **technical** and the **HR** round.

Technical and Personal Round for Software Candidates

Mainly subjective questions in C, Operating Systems, DBMS, Data Structures are asked interspersed with some on the candidate's personal background.

Typical questions in C and Data Structures

- 1.WAP to interchange 2 variables without using the third one.
- 2.Explain quick sort and merge sort algorithms and derive the time-constraint relation for these.
- 3.Explain binary searching, fibonacci search.
- 4.General questions on binary trees, transversals
- 5.General questions on graphs and their representation.

Typical Questions on Operating Systems

- 1.Demand paging, page faults, replacement algos, thrashing, etc.
- 2.Paged segmentation and segment paging.

HR Round for Software Candidates

In this section, **case studies are presented** are presented before the candidate to perceive his reaction and his/her **communication skills are tested**. *IBM expects teamwork and team spirit* from the candidates and their answers should reflect this attitude.

Typical question is:

You are a project manager of a big multinational project. There is a person X, assigned to you who has the best technical skills required for the project, even better than you. But he wishes to be the project manager, which the management does not permit, due to which he threatens to quit. All others in the group are not as competent. Talk yourself out of this situation pretending that the interviewer is the disgruntled employee and explain the necessary action.

For the technical section questions the engg. textbooks would suffice. For a detailed list of authors and other important tips check our [interview section](#).

[Back To The Top](#)

• Profile

IBM strives to lead in the creation, development and manufacture of the industry's most advanced information technologies, including **computer systems, software, networking systems, storage devices and microelectronics**. IBM brings its products and services through IBM India and IBM Global Services.

IBM India's product portfolio includes the IBM PC, Aptiva home computer, ThinkPad portables, RS/6000, AS/400e, S/390 and Netfinity servers, network computers, printers, networking and storage products. IBM's software offerings include DB2, Lotus, Tivoli, MQ Series and a range of Internet software like WebSphere and SecureWay.

India is also home to **two select IBM centers** - the **IBM Solutions Research Center** at New

Delhi and the **Solutions Partnership Center (SPC)** at **Bangalore**. The SRC (only the eighth of its kind across the globe) is an extended arm of IBM Research activities. As part of IBM's global research infrastructure, the SRC participates in path breaking research projects for IBM worldwide. The Solutions Partnership Center at Bangalore is a part of IBM's developer relations focus for India. The SPC is a showcase of IBM technology and a testing and porting lab for application software developers.

The current pay package is around Rs. **20,000**. IBM is on spree of increasing its male/female ratio in its workforce hence female candidates are being given a slight advantage over their male counterparts.

For more information about this company visit their homesite at www.ibm.com

[Back To The Top](#)

IBM Global Sample Test Paper

[Home](#)[Back To IBM Page](#)

1. In 1978, a kg of paper was sold at Rs25/-.

If the paper rate increases at 1.5% more than the inflation rate which is 6.5% a year, then what will be the cost of a kg of paper after 2 years?

- (a) 29.12
- (b) 29.72
- (c) 30.12
- (d) 32.65
- (e) none of these

2. In A,B,C are having some marbles with each of them.

A has given B and C the same number of marbles each of them already have.

Then, B gave C and A the same number of marbles they already have.

Then C gave A and B the same number of marbles they already have.

At the end A,B,and C have equal number of marbles.

(i) If x,y,z are the marbles initially with A,B,C respectively.

Then the number of marbles B have at the end

- (a) $2(x-y-z)$
- (b) $4(x-y-z)$
- (c) $2(3y-x-z)$
- (d) $x + y-z$

Ans. (c)

(ii) If the total number of marbles are 72, then the number of marbles with A at the starting

- (a) 20
- (b) 30
- (c) 32
- (d) 39

Ans. (d)

3. If a car starts from A towards B with some velocity.

Due to some problem in the engine after travelling 30km, the car goes with $\frac{4}{5}$ th of its actual velocity

The car reaches B 45 min later to the actual time.

If the car engine fails after travelling 45km, the car reaches the destination B 36min late to the actual time

What is the initial velocity of car and what is the distance between A and B in km

Ans. 20 & 130.

4. A person has Rs 100/- in his pocket, he can as 25 pencils or 15 books.

He kept 15% of the money for travelling expenses and purchased 5 pencils.

So how many books he can purchase with the remaining money.

5. Ten questions on analogies.

eg: chief : tribe :: **governor : state**

epaulette : shoulder :: **tiara : head**

guttural : throat :: **gastric : stomach**

inept : clever :: **languid : active**

knife : butcher ::

hammer : carpenter ::

6. The values of shares (in Rs).of A, B and C from January to June are as follows.

Month	A	B	C
January	30	60	80
February	35	65	85
March	45	75	65
April	40	75	82
May	55	75	85
June	50	75	80

i) During this period which share has undergone maximum fluctuation?

ii) In which month it is possible to buy B and C selling A?

- iii) In which month the share values are very low?
- iv) By purchasing one share of A and 4 each of B and C in the beginning of the period, when should these be sold to get maximum profit?

7. In a computer institute 9 languages can be taught.

The module is of 6 months duration and of the six languages only one can be taught each month .

In addition to that BASIC is always taught and should be in first month itself

- WORD PERFECT is to be taught in the preceeding week of WORD STAR.
- FORTRAN can not be taught until COBAL is taught prior to that
- BINO, FIFO can never be taught in single module

languages are BASIC, WORD STAR, WORD PERFECT, FORTRAN, COBAL, BINO, FIFO, LOTUS, C

- i) If word star is in 3rd month , what could be in 6th month.
- ii) If COBAL is in the 2nd month and BINO in 6th month. FORTRAN will be taught in which month.

8. In a class, except 18 all are above 50 years.

15 are below 50 years of age. How many people are there

- (a) 30
- (b) 33
- (c) 36
- (d) none of these.

Ans. (d)

9. A square plate of some size is cut at four corners. Equal squares of the same size are cut and is formed as open box.

If this open box carries 128 ml of oil. What is the size of the side of the plate?

- (a) 17
- (b) 14
- (c) 13
- (d) None of these

10. In a square, all the mid points are joined. The inner square is shaded.

If the area of the square is A, what is the area of the shaded area?

11. Two questions on basic angles i.e given a circle, a few chords or diameter is drawn etc.

12. If the following statements are given

- $@(a,b) = (a+b)/2$
- $/(a,b) = a/b$
- $*(a,b) = ab$

If $a=1$, $b=2$ then find

i) $/(a,(@(a,b),*(a,b)))$

ii) $*/(a,@(*(a,b)))$

13. If the following statements are given

- $(x\#y) = x + y - xy$
- $(x*y) = (x + y)/2$

i) Find the values of x , y will satisfy this equation $(x\#y)\#(x*y) < (x\#y)$

ii) Find the values of x , y will satisfy this equation $(a*b)\#(b*c) < (a\#b)*(b*c)$

14. Export PS1 results in(PS1 pwd)

- a) primary prompt being your current directory
- b) primary prompt and secondary prompts being the current directory
- c) primary prompt being your home directory
- d) primary prompt and secondary prompts being the home directory
- e) None of the above.

15. If you type in the command

nohup sort employees > list 2 > error out &

and log off ,the next time you log in, the output will be

- a) in a file called list and the error will be typed in a file error out
- b) there will be no file called list or error out
- c) error will be logged in a file called list and o/p will be in error out
- d) you will not be allowed to log in
- e) none of the above

16. In UNIX a file's i-node

Ans. Is a data structure that defines all specifications of a file like the file size, number of lines to a file, permissions etc.

17. The UNIX shell

- a) does not come with the rest of the system
- b) forms the interface between the user and the kernel
- c) does not give any scope for programming
- d) does not allow calling one program from within another
- e) all of the above

Ans. (b)

18. enum number { a=-1, b= 4,c,d,e}
What is the value of e ?

- (a) 7
- (b) 4
- (c) 5
- (d) 15
- (e) 3

19. The very first process created by the kernel that runs till the kernel process is halted is

- a) init
- b) getty
- c) both (a) and (b)
- d) none of these

Ans. (a)

20. Output of the following program is

```
main()
{int i=0;
for(i=0;i<20;i++)
{switch(i)
case 0:i+=5;
case 1:i+=2;
case 5:i+=5;
default i+=4;
break;}
printf("%d",i);
}
}
```

- a) 0,5,9,13,17
- b) 5,9,13,17
- c) 12,17,22
- d) 16,21
- e) Syntax error

Ans. (d)

21. What is the output in the following program

```
main()
{char c=-64;
int i=-32
unsigned int u =-16;
if(c>i)
{printf("pass1,");
if(c<u)
printf("pass2");
else
printf("Fail2");
}
else
printf("Fail1");
if(i<u)
printf("pass2");
else
```

```
printf("Fail2")  
}
```

- a) Pass1,Pass2
- b) Pass1,Fail2
- c) Fail1,Pass2
- d) Fail1,Fail2
- e) None of these

Ans. (c)

22. In the process table entry for the kernel process, the process id value is

- (a) 0
- (b) 1
- (c) 2
- (d) 255
- (e) it does not have a process table entry

Ans. (a)

23. Which of the following API is used to hide a window

- a) ShowWindow
- b) EnableWindow
- c) MoveWindow
- d) SetWindowPlacement
- e) None of the above

Ans. (a)

24. What will the following program do?

```
void main()  
{  
int i;  
char a[]="String";  
char *p="New Sring";  
char *Temp;
```

```

Temp=a;
a=malloc(strlen(p) + 1);
strcpy(a,p); //Line number:9//
p = malloc(strlen(Temp) + 1);
strcpy(p,Temp);
printf("(%s, %s)",a,p);
free(p);
free(a);
} //Line number 15//

```

- a) Swap contents of p & a and print:(New string, string)
- b) Generate compilation error in line number 8
- c) Generate compilation error in line number 5
- d) Generate compilation error in line number 7
- e) Generate compilation error in line number 1

Ans. (b)

25. In the following code segment what will be the result of the function,

```

value of x , value of y
{unsigned int x=-1;
int y;
y = ~0;
if(x == y)
printf("same");
else
printf("not same");
}

```

- a) same, MAXINT, -1
- b) not same, MAXINT, -MAXINT
- c) same , MAXUNIT, -1
- d) same, MAXUNIT, MAXUNIT
- e) not same, MAXINT, MAXUNIT

Ans. (a)

26. PATH = /bin : /usr : /yourhome

The file /bin/calender has the following line in it

cal 10 1997

The file /yourhome/calender has the following line in it

cal 5 1997

If the current directory is /yourhome and calender is executed

- a) The calendar for May 1997 will be printed on screen
- b) The calendar for Oct 1997 will be printed on screen
- c) The calendar for the current month(whatever it is) will be printed
- d) Nothing will get printed on screen
- e) An error message will be printed

27. What will be the result of the following program ?

```
char *gxxx()
{static char xxx[1024];
return xxx;
}

main()
{char *g="string";
strcpy(gxxx(),g);
g = gxxx();
strcpy(g,"oldstring");
printf("The string is : %s",gxxx());
}
```

- a) The string is : string
- b) The string is :Oldstring
- c) Run time error/Core dump
- d) Syntax error during compilation
- e) None of these

Ans. (b)

28. What will be result of the following program?

```
void myalloc(char *x, int n)
```

```
{x= (char *)malloc(n*sizeof(char));
memset(x,\0,n*sizeof(char));
}
```

```
main()
{char *g="String";
myalloc(g,20);
strcpy(g,"Oldstring");
printf("The string is %s",g);
}
```

- a) The string is : String
- b) Run time error/Core dump
- c) The string is : Oldstring
- d) Syntax error during compilation
- e) None of these

29. Which of the following function is used to repaint a window immediately

- a) Sendmessage(hWnd,WM_PAINT,.....)
- b) InvalidateRect(.....)
- c) MoveWindow
- d) WM_COPY
- e) None

30. Which function is the entry point for a DLL in MS Windows 3.1

- a) Main
- b) Winmain
- c) Dllmain
- d) Libmain
- e) None

Ans. (b)

31. The standard source for standard input, standard output and standard error is

- a) the terminal
- b) /dev/null

- c) /usr/you/input, /usr/you/output/, /usr/you/error respectively
- d) None

Ans. (a)

32. What will be the result of the following program?

```
main()
{char p[]="String";
int x=0;
if(p=="String")
{printf("Pass 1");
if(p[sizeof(p)-2]=='g')
printf("Pass 2");
else
printf("Fail 2");
}
else
{
printf("Fail 1");
if(p[sizeof(p)-2]=='g')
printf("Pass 2");
else
printf("Fail 2");
}
}
```

- a) Pass 1, Pass 2
- b) Fail 1, Fail 2
- c) Pass 1, Fail 2
- d) Fail 1, Pass 2
- e) syntax error during compilation

33. Which of the choices is true for the mentioned declaration ?

```
const char *p;
and
char * const p;
```

- a) You can't change the character in both
- b) First : You can't change the character & Second : You can't change the pointer

- c) You can't change the pointer in both
- d) First : You can't change the pointer & Second : You can't change the character
- e) None

34. The redirection operators > and >>

- a) do the same function
- b) differ : > overwrites, while >> appends
- c) differ : > is used for input while >> is used for output
- d) differ : > write to any file while >> write only to standard output
- e) None of these

Ans. (b)

35. The command grep first second third /usr/you/myfile

- a) prints lines containing the words first, second or third from the file /usr/you/myfile
- b) searches for lines containing the pattern first in the files second, third, and /usr/you/myfile and prints them
- c) searches the files /usr/you/myfile and third for lines containing the words first or second and prints them
- d) replaces the word first with the word second in the files third and /usr/you/myfile
- e) None of the above

Ans. (b)

[Back to top](#)

Infosys Technologies Ltd.

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written paper consists mainly of puzzles followed by an essay. There are **10 puzzles to be completed within one hour** and a **short essay (usually based on the trends in the computer field) of 15 minutes**. We suggest that after going through the sample tests given below you also take time to go through some puzzle books like "Puzzles and teasers by George W. Summers " , "Shakuntla Devi's Puzzle books" , "Mind Stretching Puzzles by Stickles" etc.

The paper can be **given by students from all engineering streams**.

The following sets of questions are available:

[Sample Test1](#) **NEW!**

[Sample Test2](#)

[Sample Test3](#)

[Sample Test4](#)

[Sample Test5](#)

[Sample Test6](#)

[Sample Test7](#)

[Back To The Top](#)

• Interview

The interview lays stress on puzzles along with technical and general questions. To know more about the

interview we suggest that you look at the [Interview Section](#) in our site. For sample puzzles asked in the interview refer to the sample tests given above.

[Back To The Top](#)

• Profile

The **highest rated scrip** on the indian bourses - **Infosys** is the most admired company on the BSE. It is the face of the indian software industry. The company was the **first in India to register** on the American stock exchange - **NASDAQ** with an issue of two million **American Depository Shares(ADR)** that raised \$70 million.

The **Bangalore** based company started in 1981 has around 5,500 employees and hopes to double this figure to 10,000 till the end of year 2003(courtesy:Busiiness India).

As a part of its globalization efforts the company has set up a **global development centre** in Toronto. It also established two proximity centres at Freemont, California and Boston, Masachusettes. Infosys continues to expand in Europe. In India the development centres are to be opened at Mohali, Mangalore, Mysore, Hyderabad, Pune, Chennai and Bhubhaneshwar. The companies top clients include Nordstrom, Nortel and Goldman Sachs. Capital One Services Inc., one of the largest issuers of credit cards, is a new addition to the company's clientele. Infosys was assessed at **SEI-CMM Level 5** developed by the Carnegie Mellon University. The company has **pioneered the Employee stock option plan(ESOP)** in India. The company has grown spectacularly with soaring profit margins that stood at Rs.285 crore, up from 132 crore in 1998-99(courtesy:Computers Today). Amongst its major products are the **banking softwares** popularly known as **Finnacle, Banc2000** and **BankAway**.

The company provides a **3 month training** to the new recruits **in Bangalore**. There is also a **service agreement for an year**. The **pay package** is around **Rs.17,000(approx.)** for the year 2000 recruits.

The company was also judged as the **5th best managed** company in Asia. The company's **Chairman Mr.N.R.Narayan Murthy** was selected as one of the 50 most powerful people in Asia for the year 2000 in a poll conducted by Asiaweek.

For more information about this company visit their homesite at www.infy.com

[Back To The Top](#)

Infosys Sample Test #1

[Home](#)
[Back To Infosys Page](#)

1. Father's age is three years more than three times the son's age.
After three years, father's age will be ten years more than twice the son's age.
What is the father's present age.

Ans: 33 years. (2 marks)

2. Find the values of each of the alphabets.

$$\begin{array}{r}
 \text{N O O N} \\
 \text{S O O N} \\
 + \text{M O O N} \\
 \hline
 \text{J U N E}
 \end{array}$$

Ans: 9326 (2 marks)

3. There are 20 poles with a constant distance between each pole
A car takes 24 second to reach the 12th pole.
How much will it take to reach the last pole.

Ans: 41.45 seconds (2 marks)
Let the distance between two poles = x
Hence $11x:24::19x:?$

4. A car is travelling at a uniform speed.
The driver sees a milestone showing a 2-digit number.
After travelling for an hour the driver sees another milestone with the same digits in reverse order.
After another hour the driver sees another milestone containing the same two digits.
What is the average speed of the driver.

Ans: 45 kmph (4 marks)

5. The minute and the hour hand of a watch meet every 65 minutes.

How much does the watch lose or gain time and by how much?

Ans: Gains; 5/11 minutes (4 marks)

6. Ram, Shyam and Gumnaam are friends.

Ram is a widower and lives alone and his sister takes care of him.

Shyam is a bachelor and his niece cooks his food and looks after his house.

Gumnaam is married to Gita and lives in large house in the same town.

Gita gives the idea that all of them could stay together in the house and share monthly expenses equally.

During their first month of living together, each person contributed Rs.25.

At the end of the month, it was found that Rs 92 was the expense so the remaining amount was distributed equally among everyone.

The distribution was such that everyone recieved a whole number of Rupees.

How much did each person recieve?

Ans. Rs 2 (4 marks)
(Hint: Ram's sister, Shyam's neice and Gumnaam's wife are the same person)

7. Four persons A, B, C and D are playing cards.

Each person has one card, laid down on the table below him, which has two different colours on either side.

The colours visible on the table are Red, Green, Red and Blue.

They see the color on the reverse side and give the following comment.

A: Yellow or Green

B: Neither Blue nor Green

C: Blue or Yellow

D: Blue or Yellow

Given that out of the 4 people 2 always lie find out the colours on the cards each person.

8.

[Back to top](#)

Infosys Sample Test #2

[Home](#)
[Back To Infosys Page](#)

1. At 6'o a clock ticks 6 times.
The time between first and last ticks is 30 seconds.
How long does it tick at 12'o clock.

Ans: 66 sec. (2 marks)

2. Three friends divided some bullets equally.
After all of them shot 4 bullets the total number of bullets remaining is equal to the bullets each had after division.
Find the original number divided.

Ans: 18 (2 marks)

Initially . x x x
Now x-4 x-4 x-4
Equation is $3x-12 = x$

3. A ship went on a voyage.
After it had travelled 180 miles a plane startred with 10 times the speed of the ship.
Find the distance when they meet from starting point.

Ans: 200miles. (2 marks)
Distance travelled by plane = 1/10 distance travelled by ship + 180

4. Complete the Table given below:

Three football teams are there. Given below is the group table. Fill in the x's

	Played	Won	Lost	Draw	Goals For	Goals Against
A	2	2	x	x	x	1
B	2	x	x	1	2	4
C	2	x	x	x	3	7

Ans: The filled table is given below

(4 marks)

	Played	Won	Lost	Draw	Goals For	Goals Against
A	2	2	0	0	7	1
B	2	0	1	1	2	4
C	2	0	1	1	3	7

5. There are 3 societies A, B, C.

A lent cars to B and C as many as they had already.

After some time B gave as many tractors to A and C

as many as they have. After sometime c did the same thing. At the end of this transaction each one of them had 24.

Find the cars each originally had.

Ans: A had 39 cars, B had 21 cars & C had 12 cars

(4 marks)

6. There N stations on a railroad.

After adding X stations on the rail route 46 additional tickets have to be printed.

Find N and X.

Ans. $x=2$ and $N=11$

Let initially, $N(N-1) = t$

After adding, $(N+X)(N+X-1) = t+46$

By trail and error method

(4 marks)

7. Given that April 1 is tuesday.

A, B, C are 3 persons told that their farewell party was on

- A - May 8, thursday
- B - May 10, tuesday
- C - June 5, friday

Out of A, B, C only one made a completely true statement concerning date, day and month
The other told two one told the day right and the other the date right..

What is correct date, month, day.

Ans: B - (May 10) SUNDAY

C - June 6 (Friday).

(5 marks)

8. The Bulls, Pacers, Lakers and Jazz ran for a contest.

Anup, Sujit, John made the following statements regarding results.

- Anup said either Bulls or Jazz will definitely win
- Sujit said he is confident that Bulls will not win
- John said he is confident that neither Jazz nor Lakers will win

When the result came it was found that only one of the above three had made a correct statement. Who has made the correct statement and who has won the contest.

Ans: Sujith; Lakers

(5marks)

9. Five people A ,B ,C ,D ,E are related to each other.

Four of them make one true statement each as follows.

- (i) B is my father's brother.
- (ii) E is my mother-in-law.
- (iii) C is my son-in-law's brother
- (iv) A is my brother's wife.

Ans: (i) D

(ii) B

(iii) E

(iv) C

(10 marks)

10. Some statements are given below:

- L says all of my other four friends have money
- M says that P said that exactly one among them has money
- N says that L said that precisely two among them have money
- O says that M said that three of the others have money
- P, L and N said that they have money

All the above statement are false..

Who has money & who doesn't have any money?

(5 marks)

[Back to top](#)

Infosys Sample Test #3

[Home](#)
[Back To Infosys Page](#)

1. Mr.Mathurs jewels have been stolen from his bank locker .

The bank has lockers of 12 people which are arranged in an array of 3 rows and 4 columns like:

1	2	3	4
5	6	7	8
9	10	11	12

- The locker belonging to JONES was to the right of BLACK'S locker and directly above MILLAR'S.
- BOOTH'S locker was directly above MILLAR'S.
- SMITH'S locker was also above GRAY's (though not directly).
- GREEN'S locker was directly below SMITH'S.
- WILSON'S locker was between that of DAVIS and BOOTH.
- MILLAR'S locker was on the bottom row directly to the right of HERD'S.
- WHITE'S locker was on the bottom right hand corner in the same column as BOOTH'S.

Which box belonged to Mr.Mathurs?

Ans: Box number 9 belongs to Mr.Mathurs.

2. Fifty minutes ago if it was four times as many minutes past three o'clock,how many minutes is it to six o'clock?

Ans: Twenty six minutes.

3. If a clock takes 7seconds to strike 7, how long will the same clock take to strike 10?

Ans: The clock strikes for the first time at the start and takes 7 seconds for 6 intervals-thus for one interval time

taken=7/6.

Therefore, for 10 seconds there are 9 intervals and time taken is $9 \times 7/6 = 10$ and $1/2$ seconds.

4. Three criminals were arrested for shop lifting.

However, when interrogated only one told the truth in both his statements, while the other two each told one true

statement and one lie.

The statements were:

- **ALBERT** : (a)Chander passed the merchandise. (b)Bruce created the diversion.
- **BRUCE** : (a)Albert passed the merchandise. (b)I created the diversion.
- **CLIVE** : (a)I took the goods out of the shop. (b)Bruce passed them over.

Ans: Albert passed the goods.Bruce created the diversion..Clive took the goods out of the shop.

5. Everyday in his business a merchant had to weigh amounts from 1 kg to 121 kgs, to the nearest kg. What are the minimum number of weight required and how heavy should they be?

Ans: .The minimum number is 5 and they should weigh 1,3,9,27 and 81 kgs.

6. A hotel has 10 storeys.Which floor is above the floor below the floor, below the floor above the floor, below the floor above the fifth.

Ans: The sixth floor.

7. Seven members sat around a table for three days for a conference.

The member's names were Abhishek, Amol, Ankur, Anurag,Bhuwan ,Vasu and Vikram.

The meetings were chaired by Vikram.

On the first evening members sat around the table alphabetically.

On the following two nights, Vikram arranged the seatings so that he could have Abhishek as near to him as

possible and abesent minded Vasu as far away as he could.

On no evening did any person have sitting next to him a person who had previously been his neighbour.

How did Vikram manage to seat everybody to the best advantage on the second and third evenings?

Ans:

Second evening:Vikram,Ankur,Abhishek,Amol,Vasu,Anurag and Bhuwan.

Third evening :Vikram,Anurag,Abhishek,Vasu,Bhuwan,Ankur,Amol.

8. Two trains start from stations A and B spaced 50 kms apart at the same time and speed.

As the trains start, a bird flies from one train towards the other and on reaching the second train, it flies

back to the

first train. This is repeated till the trains collide.

If the speed of the trains is 25 km/h and that of the bird is 100km/h.

How much did the bird travel till the collision.

Ans: 100 kms.

9. Four prisoners escape from a prison.

The prisoners, Mr East, Mr West, Mr South, Mr North head towards different directions after escaping.

The following information of their escape was supplied:

- The escape routes were The North Road, South Road, East Road and West Road.
- None of the prisoners took the road which was their namesake.
- Mr. East did not take the South Road
- Mr. West did not take the South Road.
- The West Road was not taken by Mr. East

What road did each of the prisoners take to make their escape?

Ans: Mr. East took the North Road

Mr. West took the East Road

Mr. North took the South Road

Mr. South took the West Road.

10. Complete the series:

5, 20, 24, 6, 2, 8, ?

Ans: 12 (as $5 \times 4 = 20$, $20 + 4 = 24$, $24 / 4 = 6$, $6 - 4 = 2$, $2 \times 4 = 8$, $8 + 4 = 12$).

[Back to top](#)

Infosys Sample Test #4

[Home](#)
[Back To Infosys Page](#)

1. Replace each letter by a digit.

Each letter must be represented by the same digit and no beginning letter of a word can be 0.

O N E

O N E

O N E

O N E

T E N

Ans: 0 = 1, N = 8, E = 2, T = 7

2. Ann, Boobie, Cathy and Dave are at their monthly business meeting.

Their occupations are author, biologist, chemist and doctor, but not necessarily in that order.

Dave just told the biologist that Cathy was on her way with doughnuts.

Ann is sitting across from the doctor and next to the chemist.

The doctor was thinking that Boobie was a goofy name for parent's to choose, but didn't say anything.

What is each person's occupation?

Ans: Since Dave spoke to the biologist and Ann sat next to the chemist and across the doctor, Cathy must be the author

and Ann the biologist.

The doctor didn't speak, but David did, so Bobbie is the doctor and Dave the chemist.

3. Sometime after 10:00 PM a murder took place.

A witness claimed that the clock must have stopped at the time of the shooting.

It was later found that the position of both the hands were the same but their positions had interchanged.

Tell the time of the shooting (both actual and claimed).

Ans: Time of shooting = 11:54 PM

Claimed Time = 10:59 PM

4. Next number in the series is

1 , 2 , 4 , 13 , 31 , 112 , ?

Ans: 224.

No number has digits more than 4. All of them are 1 , 2, 4, 8 , 16 , 32 , 64 converted to numbers in base 5

5. Shahrukh speaks truth only in the morning and lies in the afternoon, whereas Salman speaks truth only in the afternoon. A says that B is Shahrukh. Is it morning or afternoon and who is A - Shahrukh or Salman.

Ans: Afternoon ; A is Salman.

6. Two trains starting at same time, one from Bangalore to Mysore and other in opposite direction arrive at their

destination 1 hr and 4 hours respectively after passing each other. How much faster is one train from other?

Ans: Twice

7. There are 6 volumes of books on a rack kept in order (ie vol.1, vol. 2 and so on).

Give the position after the following changes were noticed.

- All books have been changed
- Vol.5 was directly to the right of Vol.2
- Vol.4 has Vol.6 to its left and both weren't at Vol.3's place
- Vol.1 has Vol.3 on right and Vol.5 on left
- An even numbered volume is at Vol.5's place

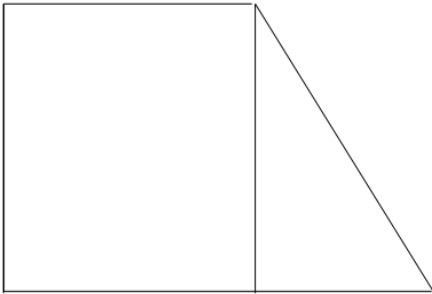
Find the order in which the books are kept now.

Ans: 2 , 5 , 1 , 3 , 6 , 4

8. I bought a car with a peculiar 5 digit numbered licence plate which on reversing could still be read. On reversing value is increased by 78633. Whats the original number if all digits were different?

Ans: Only 0 1 6 8 and 9 can be read upside down. So on rearranging these digits we get the answer as 10968

9. The shape in the sketch below is that of a square attached to half of a similar square. Divide it into four equal pieces



Ans: Hint : the figure can be divided into 12 equal triangles

10. Supposing a clock takes 7 seconds to strike 7. How long will it take to strike 10?

Ans: 10 1/2 seconds.

[Back to top](#)

Infosys Sample Test #5

[Home](#)
[Back To Infosys Page](#)

- 1) A man collects cigarette stubs and makes one full cigarette with every 8 stubs.
If he gets 64 stubs how many full cigarettes can he smoke.

Ans: $8+1=9$

- 2) A soldier loses his way in a thick jungle. At random he walks from his camp but mathematically in an interesting fashion. First he walks one mile East then half mile to North. Then $1/4$ mile to West, then $1/8$ mile to South and so on making a loop.
Finally how far he is from his camp and in which direction.

Ans: Distance travelled in north and south directions

$$\begin{aligned} &1/2 - 1/8 + 1/32 - 1/128 + 1/512 - \text{and so on} \\ &= 1/2 / ((1 - (-1/4))) \end{aligned}$$

Similarly in east and west directions

$$\begin{aligned} &1 - 1/4 + 1/16 - 1/64 + 1/256 - \text{and so on} \\ &= 1 / ((1 - (-1/4))) \end{aligned}$$

Add both the answers

- 3) How can 1000000000 be written as a product of two factors neither of them containing zeros

Ans: $2^9 \times 5^9$

- 4) Conversation between two mathematicians:

First : I have three children. The product of their ages is 36.

If you sum their ages, it is exactly same as my neighbour's door number on my left.

The second mathematician verifies the door number and says that it is not sufficient.

Then the first says " Ok one more clue is that my youngest is really the youngest". Immediately the second mathematician answers .

Can you answer the question asked by the first mathematician?

What are the children's ages?

Ans 1, 6 and 6

- 5) Light glows for every 13 seconds . How many times did it glow between 1:57:58 and 3:20:47 am.

Ans : $383 + 1 = 384$

6) 500 men are arranged in an array of 10 rows and 50 columns according to their heights.

Tallest among each row of all are asked to fall out.

And the shortest among them is A.

Similarly after resuming that to their original positions that the shortest among each column are asked to fall out.

And the tallest among them is B .

Now who is taller among A and B ?

Ans A

7) A person with some money spends $\frac{1}{3}$ for cloths, $\frac{1}{5}$ of the remaining for food and $\frac{1}{4}$ of the remaining for travel.

He is left with Rs 100/- .

How much did he have with him in the beginning ?

Ans: Rs 250/-

8) There are six boxes containing 5 , 7 , 14 , 16 , 18 , 29 balls of either red or blue in colour.

Some boxes contain only red balls and others contain only blue.

One sales man sold one box out of them and then he says

" I have the same number of red balls left out as that of blue ".

Which box is the one he sold out ?

Ans: Total no of balls = 89 and $(89-29)/2 = 60/2 = 30$
and also $14 + 16 = 5 + 7 + 18 = 30$

9) A chain is broken into three pieces of equal lengths containing 3 links each.

It is taken to a blacksmith to join into a single continuous one .

How many links are to be opened to make it ?

Ans : 2.

10) Grass in lawn grows equally thick and in a uniform rate.

It takes 24 days for 70 cows and 60 days for 30 cows to eat the whole of the grass.

How many cows are needed to eat the grass in 96 days.?

Ans : 20

g - grass at the beginning

r - rate at which grass grows, per day

y - rate at which one cow eats grass, per day

n - no of cows to eat the grass in 96 days

$$g + 24*r = 70 * 24 * y$$

$$g + 60*r = 30 * 60 * y$$

$$g + 96*r = n * 96 * y$$

Solving, n = 20.

[Back to top](#)

Infosys Sample Test #6

[Home](#)[Back To Infosys Page](#)

1. From a vessel, $\frac{1}{3}$ rd of the liquid evaporates on the first day.
On the second day $\frac{3}{4}$ th of the remaining liquid evaporates.
What fraction of the volume is present at the end of the second day.

Ans: 50%

2. An orange glass has orange juice and white glass has apple juice both of equal volumes.
50ml of the orange juice is taken and poured into the apple juice.
50ml from the white glass is poured into the orange glass.
Of the two quantities, the amount of apple juice in the orange glass and the amount of orange juice in the white glass, which one is greater and by how much?

Ans: The two quantities are equal

3. There is a 4 inch cube painted on all sides.
This is cut down into of 1 inch cubes.
What is the no of cubes which have no pointed sides.

Ans: 8

4. Sam and Mala have a conversation.
- Sam says I am certainly not over 40
 - Mala says I am 38 and you are atleast 5 years older than me
 - Now Sam says you are atleast 39

All the statements by the two are false.
How old are they really?

Ans: Mala = 38 yrs
Sam = 41 yrs.

5. Ram Singh goes to his office in the city, every day from his suburban house.
His driver Gangaram drops him at the railway station in the morning and picks him up in the evening.
Every evening Ram Singh reaches the station at 5 O' Clock.
Gangaram also reaches at the same time.

One day Ram Singh started early from his office and came to the station at 4 O' Clock.

Not wanting to wait for the car he starts walking home. Mangaram starts at normal time, picks him up on the way

and takes him back house, half an hour early.

How much time did Ram Singh walk?

6. In a railway station, there are two trains going.

One in the harbour line and one in the main line, each having a frequency of 10 minutes.

The main line service starts at 5 o'clock and the harbour line starts at 5.02A.M.

A man goes to the station every day to catch the first train that comes.

What is the probability of the man catching the first train?

Ans: 0.8

7. A family X went for a vacation.

Unfortunately it rained for 13 days when they were there.

But whenever it rained in the mornings, they had clear afternoons and vice versa.

In all they enjoyed 11 mornings and 12 afternoons.

How many days did they stay there totally?

Ans: 18

8. A survey was taken among 100 people to find their preference of watching T.V. programmes.

There are 3 channels. Given the no of people who watch

- at least channel 1
- at least channel 2
- at least channel 3
- no channels at all
- atleast channels 1 and 3
- atleast channels 1 and 2
- atleast channels 2 and 3

Find the no of people who watched all three.

9. Albert and Fernandes have two leg swimming race.

Both start from opposite ends of the pool.

On the first leg, the boys pass each other at 18 m from the deep end of the pool.

During the second leg they pass at 10 m from the shallow end of the pool.

Both go at constant speed but one of them is faster.

Each boy rests for 4 seconds at the end of the first leg.

What is the length of the pool?

10. Each alphabet stands for one digit in the following multiplication.

$$\begin{array}{r}
 \text{THIS} \\
 \times \text{IS} \\
 \hline
 \text{XFXX} \\
 \text{XXUX} \\
 \hline
 \text{XXNXX} \\
 \hline
 \end{array}$$

What is the maximum value T can take?

Ans: T max value = 4

[Back to top](#)

Infosys Sample Test #7

[Home](#)[Back To Infosys Page](#)

1. An escalator is descending at constant speed.

A walks down and takes 50 steps to reach the bottom.

B runs down and takes 90 steps in the same time as A takes 10 steps.

How many steps are visible when the escalator is not operating?

Ans: 150 steps

2. Every day a cyclist meets a train at a particular crossing.

The road is straight before the crossing and both are travelling in the same direction.

The cyclist travels with a speed of 10 Kmph.

One day the cyclist comes late by 25 min. and meets the train 5km before the crossing.

What is the speed of the train?

Ans: 60 kmph

3. There are five persons with surnames Mukherjee, Misra, Iyer, Patil and Sharma.

There are 4 persons having first or middle name of Kumar, 3 persons with Mohan, 2 persons with Dev and 1 Anil.

Either Mukherjee and Patil have a first or middle name of Dev or Misra and Iyer have their first or middle name of Dev.

Of Mukherjee and Misra, either both of them have a first or middle name of Mohan or neither have a first or

middle name of Mohan.

Either Iyer or Sharma has a first or middle name of Kumar but not both.

Who has the first or middle name of Anil?

Ans: Kumar Misra Dev

Mohan Iyer Dev

Kumar Patil Mohan

Mohan Sharma Kumar

4. Boys are allowed to watch football at C.V.Raman auditorium subjected to conditions.

- The boy over age 16 can wear overcoat
- No boy over age 15 can wear cap
- To watch the football either he has to wear overcoat or cap or both
- A boy with an umbrella or above 16 or both cannot wear sweater.
- Boys must either not watch football or wear sweater.

What is the appearance of the boy who is watching football.

5. A bird keeper has got P pigeons, M mynas and S sparrows.

The keeper goes for lunch leaving his assistant to watch the birds.

- Suppose $p=10$, $m=5$, $s=8$ when the bird keeper comes back, the assistant informs the x birds have escaped. The bird keeper exclaims: "Oh no! All my sparrows are gone."
How many birds flew away?
- When the bird keeper comes back, the assistant told him that x birds have escaped. The keeper realised that atleast 2 sparrows have escaped.
What is minimum no of birds that can escape?

6. Answer the following questions based on the conditions from the choices A, B, C, D, E as described below:

- (A) if a definite conclusion can be drawn from condition 1
- (B) if a definite conclusion can be drawn from condition 2
- (C) if a definite conclusion can be drawn from condition 1 and 2
- (D) if a definite conclusion can be drawn from condition 1 or 2
- (E) no conclusion can be drawn using both conditions

- person 1 says $N < 5$
- person 2 says $N > 5$
- person 3 says $3N > 20$
- person 4 says $3N > 10$
- person 5 says $N < 8$

What is the value of N ?

- a) 1. No of persons who speak false being less than no of persons who tells the truth.
2. Person 2 is telling the truth.
- b) 1. no of persons telling the truth is greater than no of persons telling lies
2. person 5 is telling the truth.

7. There are N coins on a table and there are two players A & B.

You can take 1 or 2 coins at a time.

The person who takes the last coin is the loser.

A always starts first.

- If $N=7$
 - (a) A can always win by taking two coins in his first chance
 - (b) B can win only if A takes two coins in his first chance.
 - (c) B can always win by proper play
 - (d) none of the above
 - 2. A can win by proper play if N is equal to
 - (a) 13 (b) 37 (c) 22 (d) 34 (e) 48
- Ans: (e.)
- 3. B can win by proper play if N is equal to
 - (a) 25 (b) 26 (c) 32 (d) 41 (e) none
 - 4. if $N < 4$, can A win by proper play always?
 - (a) Yes (b) No

8. Two twins have certain peculiar characteristics.

One of them always lies on Monday, Wednesday, Friday.

The other always lies on Tuesdays, Thursdays and Saturdays.

On the other days they tell the truth. You are given a conversation.

- Person A -- today is Sunday my name is Anil
- Person B -- today is Tuesday, my name is Bill

What day is today?

Ans: Today is Tuesday.

9. There is a safe with a 5 digit number as the key.

The 4th digit is 4 greater than second digit, while 3rd digit is 3 less than 2nd digit.

The 1st digit is thrice the last digit.

There are 3 pairs whose sum is 11.

Find the number.

Ans: 65292

10. A hotel has two wings, the east wing and the west wing.

Some east wing rooms but not all have an ocean view.

All west wing rooms have a harbour view.

The charge for all rooms is identical, except as follows :

- Extra charge for all harbour view rooms on or above the 3rd floor

- Extra charge for all ocean view rooms except those without balcony
- Extra charge for some harbour rooms on the first two floor & some east wing rooms without ocean view but having kitchen facilities.

Which of the following cannot be determined on the basis of the information given:

- I. Whether there are any rooms without a balcony for which an extra charge is imposed.
- II. Whether any room without a kitchen or a view involves an extra charge.
- III. Whether two extra charges are imposed for any room.

- (A) I only
(B) II only
(C) III only
(D) II and III only
(E) I, II and III

(This question is from 1999 Barrons GRE Guide model Test 3 - section 6, question 22)

Ans: (A)

[Back to top](#)

Lucent Technologies

[Home](#)

Sample Paper

Interview

Profile of the company

• **Written Test**

The written test is of two parts:

Section A : Aptitude Test

Section B : Technical Test

The **aptitude** is a mixture of verbal, analytical and quantitative questions. It is based on a pattern similar to the CAT and GRE tests. Also questions on the patterns of these in R.S Agarwal can be practiced.

The **technical section** tests your knowledge in **C with Data Structures and Pointers, Computer Networks, DBMS and Operating Systems**

People with **electronics** background can expect to be tested on **core subjects**.

Click here to see the sample test.

[Back To The Top](#)

• **Interview**

The information on the interview is pretty sketchy but it consists mainly of technical grilling. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• **Profile**

Lucent Technologies Inc. is a designer, developer and manufacturer of **communications systems, software and products**. Lucent is engaged in the sale of **public and private communications systems, supplying systems and software** to most of the world's largest communications network operators and service providers. Lucent is also engaged in the sale of **microelectronic components** for **communications applications** to manufacturers of communications systems and computers. Lucent's research and development activities are conducted through **Bell Laboratories**, a leading industrial research and development organization to whom inventions like the transistor, the dial tone, the cell phone, the laser, the communications satellite etc are credited.

In **India**, Lucent is active in fields like **Global Commercial Markets, Service Provider Networks, Inter Networking Systems, Microelectronics, Optical Fiber Solutions** and **Switching Solutions**. It has 3 major joint ventures: **Tata Lucent Technologies Ltd, Lucent Technologies Finolex Ltd and Tata Telecom Lucent Technologies**. Lucent employs approximately **1300 employees in India** (including joint venture employees) and has offices in **Bangalore, New Delhi and Pune**.

For more information about this company visit their homesite at www.lucent.com

[Back To The Top](#)

Lucent Sample Test Paper

[Home](#)

[Back To Lucent Page](#)

Aptitude

Q1 .6*12*15 is the volume of some material. How many cubes of edge 3 can be inserted into it ?

Ans.40

Q2. Two pipes can fill a tank in 10 and 12 hours respectively while third pipe will make the tank empty in 20 hours. If all three pipes operate simultaneously, in how many hours the tank will be filled ?

Ans.7hours 30 minutes.

Q3. Cost of an item is x. It's value increases by p% and decreases by p% Now the new value is 1 rupee, what is the actual value ?

Ans.(1000)/(1000-p*p).

Q4. A right circular cylinder and a cone are there. Base radius of cone is equal to radius of cylinder. What is the ratio of height to slant side if their volume are the same?

Q5. Distance between two poles is 50 meters. A train goes by 48 at a speed of kmph. In one minute how many poles will be crossed by the train ?

Q6. A pole seen from a certain distance at an angle of 15 degrees and 100 meters ahead by 30 degrees. What is the height of pole ?

Q7. For 15 people--each has to pay Rs.20.For 20 people--each has to pay Rs.18. For 40 people--how much has each to pay ?

Q8. If $p=2q$ then $q=r*r$, if p -odd then q is even, whether r is even or odd ?

- a) first condition is sufficient
- b) second condition is sufficient
- c) both are sufficient
- d) both are not sufficient

Q9. If he sells 40 mangoes, he will get the selling price of 4 mangoes extra, What is his percentage increase in profit ?

Ans. 25%

Q10. 100 glasses are there. A servant has to supply glasses to a person If he supplies the glasses without any damage he will get 3 paise otherwise he will loose 3 paise. At the end of supplying 100 glasses if he gets 270 paise, how many glasses were supplied safely.

Ans. 95

Q11. Q is not equal to zero and $k = (Q \times n - s)/2$ find n ?

- (a) $(2 \times k + s)/Q$
- (b) $(2 \times s \times k)/Q$
- (c) $(2 \times k - s)/Q$
- (d) $(2 \times k + s \times Q)/Q$ (e) $(k + s)/Q$

Q12 - Q16

A causes B or C, but not both

F occurs only if B occurs
D occurs if B or C occurs
E occurs only if C occurs
J occurs only if E or F occurs
D causes G, H or both
H occurs if E occurs
G occurs if F occurs

Q12. If A occurs which of the following must occurs

- I. F & G
- II. E and H
- III. D

- (a) I only
- (b) II only
- (c) III only
- (d) I, II, III
- (e) I, II (or) II, III but not both

Ans. (e)

Q13. If B occurs which must occur

- (a) D
- (b) D and G
- (c) G and H
- (d) F and G
- (e) J

Ans. (a)

Q14. If J occurs which must have occurred

- (a) E
- (b) either B or C
- (c) both E F

- (d) B
- (e) both B and C

Ans. (b)

Q15. Which may occur as a result of cause not mentioned

- (1) D
 - (2) A
 - (3) F
-
- (a) 1 only
 - (b) 2 only
 - (c) 1 and 2
 - (d) 2 and 3
 - (e) 1,2,3

Ans. (c)

Q16. E occurs which one cannot occur

- (a) A
- (b) F
- (c) D
- (d) C
- (e) J

Ans. (b)

Technical

Q1. Which is the fastest logic ?

Ans. ECL

Q2. 202.141.65.62 type of IP address belong to which class ?

Ans. class B

Q3. Mod K ring counter requires how many number of flip flops ?

Ans. K

Q4. What is the ideal op-amp CMRR ?

Ans. infinity.

Q5. For a 13-bit DAC the MSB resistance is 2kohms. What is the LSB resistance ?

Ans. $2\text{kohms} * 2^{12}$

Q6. How many mod 3 counters are required to construct mod 9 counter.

Ans. 2

Q7. Piggy backing is a technique for

- a) Flow control
- b) Sequence
- c) Acknowledgement
- d) Retransmission

Ans. (c)

Q8. The layer in the OST model handles terminal emulation

- a) session
- b) application
- c) presentation
- d) transport

Ans. (b)

Q9. Long int size is

- a) 4 bytes
- b) 2 bytes
- c) compiler dependent
- d) 8 bytes

Ans. (c)

Q10. Find the output of

```
x=2,y=6,z=6  
x=y=z;  
printf("%d",x);
```

Q11. FTP is carried out in _____ layer ?

Other questions : Problem related to pointers.Refer Page.123 of C Programming, by Kernighan and Ritchie.

Few question related to C++

[Back to top](#)

Mascot

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

There are a total **6 sections** in the test. Each section has **10 questions** and the total time given is **60 minutes**.

All questions are **MCQ type**. The following are the sections:

- **Computer Fundamentals**
- **Algorithms**
- **Hardware**
- **Software**
- **General Awareness**
- **Languages**

There is also an **aptitude test** which is held along with the technical test. Refer **R.S. Aggarwal** for more sample questions.

The pattern of this test is known to vary with respect to the number of sections and time. Another variant of this test has two sections -- a **technical** (with **40 questions, 40 marks in 40 minutes**) and an **aptitude** section (with **30 questions, 30 marks in 30 minutes**) -- with **negative marking (1:4)**. We have included one test on this pattern also. We recommend that you go through both the tests to get the feel of the kind of paper that you could expect.

[Sample Test1 \(Pattern1\)](#) **NEW!** [Sample Test2 \(Pattern 2\)](#) **NEW!**

[Back To The Top](#)

• Interview

At the moment we do not have much informaton about the interview though the candidate may be required to go through **both technical and HR interviews**.

For further details and general tips on the HR interview, please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

Mascot Systems Private Limited is a wholly owned subsidiary of **Mastech Corporation,USA**. Mascot is the offshore software delivery arm of Mastech Corporation and is responsible for providing complete **offshore solutions** to its worldwide customers. Mascot has a fully functional **information technology facility(ITF)** located in **Bangalore** with additional offices planned at **Chennai** and **Pune**. They use their own proprietary methodology and tool, **Smart APPS** solutions suite, to architect and implement solutions. this tool has a complete year 2000 impact analysis and automation conversion tool that is used in factory settings to provide for high volumes, robust conversions. The same tool can perform cross platforms conversion and handle Euro currency migration. They have invested in world-class **computing** and **communications infrastructure** to execute large projects for their customers.

Their area of specialisation include **client-server** and **legacy development, conversion** and **migration services**, **ERP packages implementation** services, **Y2K** solutions and **Internet** and **Intanet** services.

[Back To The Top](#)

Mascot Sample Test Paper

[Home](#)

[Back To Mascot Page](#)

1. One Nibble = ?

- a) 8 bits
- b) 16 bits
- c) 4 bits
- d) 32 bits

Ans. (c)

2. Hexadecimal and Octal representation of 1024 ?

3. What a compiler does ?

4. What type of interface does DOS have?

- a) Graphical interface
- b) Character interface
- c) Symbolic interface
- d) None of the above

Ans. (b)

5. What is the abbreviation of CPU?

- a) Control Processing Unit
- b) Central Processing Unit
- c) Central Programming Unit
- d) Control Programming Unit

Ans. (b)

6. Fortran is used as a

- a) Scientific Language
- b) Business Language
- c) Language used in LANs
- d) Applications Language

Ans. (a)

7. The total number of characters in the ASCII code?

- a) 126
- b) 256
- c) 258
- d) 128

Ans. (d)

8. In Windows NT- What NT stands for?

- a) Network Techniques
- b) New Technology
- c) Network Transmission
- d) None of the above

Ans. (b)

9. Which is not an input device ?

- a) Keyboard
- b) Disk
- c) Mouse
- d) Lightpen

Ans. (b)

10. Which is not a pointing device ?

- a) Mouse
- b) Joy stick
- c) Lightpen
- d) None

11. Who is the CEO of Microsoft ?

- a) Bill Gates
- b) Steve Jobs

- c) Steve Balmer
- d) Andy Grove

Ans. (c)

12. 4GL ?

- a) Fortran
- b) SQL
- c) ADA

13. Who is the father of Computers?

- a) Alan Turing
- b) Charles Babbage
- c) Bill Gates
- d) None of the above

Ans. (b)

14. Which of them is Object Oriented Language.?

- a) Basic
- b) C
- c) C++
- d) Fortran

Ans. (c)

15. Power PC is the product of ?

- a) Microsoft
- b) IBM
- c) Apple
- d) Motorola

Ans. (c)

16. The latest processor being used these days by Intel is?

- a) Pentium-III

- b) Power PC
- c) Pentium pro
- d) None

17. MS Word is ?

18. First Super Computer built in India.

- a) Cray
- b) Param
- c) Aryabhata
- d) Arjun

Ans. (b)

19. Which of the following companies do not manufacture chips?

- a) Microsoft
- b) Motorola
- c) Intel
- d) HP

Ans. (a)

20. What is the full form of LAN

- a) Local Area Network
- b) Local Arial Networking
- c) Loop Around Network
- d) Loop Area Network

Ans. (a)

21. What is the full form of WAN

- a) Wireless Application Networking
- b) Wireless Access Network
- c) Wired Access Network
- d) Wide Area Network

Ans. (d)

22. What is a Modem ?

- a) Modulator Emulator
- b) Modulator Demodulator
- c) Mode Modulator
- d) None of the above

Ans. (b)

23. What is the full form FDD

- a) Floppy Drive Detector
- b) Floppy Drive Demodulator
- c) Floppy Disk Drive
- d) None of the above

Ans. (c)

24. What is the full form BIT

- a) Binary Integer
- b) Binary Term
- c) Binary Digit
- d) None of the above

Ans. (c)

25. Information is ?

- a) Message
- b) Data
- c) Processed data
- d) None

Ans. (b)

26. Which is not networking ?

- a) Internet
- b) Ethernet
- c) Arcnet
- d) None

27. One Gigabyte =?

- a) 2^{30}
- b) 2^{20}
- c) 2^{10}
- d) None

Ans. (a)

28. Which of the following is not RDBMS ?

- a) Sybase
- b) SQL
- c) Access
- d) None

Ans. (b)

29. Oracle is ?

- a) HLL
- b) OS
- c) RDBMS
- d) Query Language

Ans. (c)

30. In Oracle, Table means (Ans : Collection of records)

31. DMA - abbreviation

- a) Direct Memory Access
- b) Discrete Memory Access
- c) Disk Memory Access
- d) None of the above

Ans. (a)

32. What is meant by Static Variable ?{refer data storage techniques}

33. What is meant by QUEUE? {refer any data structures text}

34. What is meant by STACK? {refer any data structures text}

35. The processor used in first IBM PC?

(8086,8088,zig4,intel)

36. Difference between 80286 and 80287

37. In bubble sort , no. of comparisons required are ?

- a) $N*(N+1)/2$
- b) $N*(N-2)/2$
- c) $N*(N-1)/2$
- d) None of the above

Ans. (c)

38. No. of comparisons of an item in 100 items by binary comparison?

- a) 10
- b) 25
- c) 50
- d) 100

39. What is the full form of CRT

- a) Cathode Ray Terminal
- b) Cathode Ray Tube
- c) Common Resistor Transistor
- d) None of the above

Ans. (b)

40. No. of entry values are there in ideally in a subroutine.

41. Binary tree?

42. In which of the following is the flow in both the directions ?

- a) Single linked list
- b) Double linked
- c) Queue
- d) None of the above

Ans. (b)

43. Electron screen size ? (here, 2 lines of algorithm is given. Name the algoirithm)

44. Which is not storage device.?

- a) Floppy Disk
- b) CD ROM
- c) Disk
- d) None

Ans. (d)

45. A question regarding memory ? (least used memory,recently unused memory,...)

46.What is the full form of ISO

- a) International Software Organisation
- b) International Standard Organisation
- c) International Solutions Organisation
- d) None of the above

Ans. (b)

47.What is the full form of HTML

- a) Hyper Text Makeup Language
- b) Hyper Text Markup Language

- c) Hyper Terminal Markup Language
- d) None of the above

Ans. (b)

48. Flow chart for factorial N? (ans :choice a)

49. What is meant by Recursion ?

50. For the following C program

Struct(s)

```
{int a;  
long b;  
}
```

Union (u)

```
{int a;  
long b;  
}
```

Print sizeof(s)and sizeof(u) if sizeof(int)=4 and sizeof(long)=4

51. For the following C program

Switch (i)

```
i=1;  
case 1  
i++;  
case 2  
++i;  
break;  
case 3  
--i;
```

Output of i after executing the program

52. For the following C program

```
char S;  
char S[6]= " HELLO";  
printf("%s ",S[6]);
```

output of the above program ?

- (a) 0
- (b) ASCII 0
- (c) I
- (d) unpredictable

53. For the following C program

```
Unsigned char c;  
for ( c=0;c!=256;c++2)  
printf("%d",c);
```

No. of times the loop is executed ?

- (a) 127
- (b) 128
- (c) 256
- (d) infinitely

54. For the following program

```
int i;  
i=0;  
repeat  
i=i+1; <===== PASCAL PROGRAM  
print i;  
until(i<10)  
end
```

No. of times the loop is executed?

55. For the following program

```
Convert (int A,var ,int B;int c)  
{ A=10;  
B=4-;
```



```
C=120;
}
```

```
Convert (inta,b,c)
{ <===== PASCAL PROGRAM
a=1;
b=4;
c=12;
}
```

56. For the following program

```
Procedure A
Begin
-----
end <===== PASCAL PROGRAM
```

Procedure B No. Of errors in the program ?(1,2,3,none)

```
Begin
-----
end
```

57. For the following program

```
int i;
i=2;
i++;
if(i==4)
{printf(i=4);
}
else
{printf(i=3);
}
```

Output of the program ?

- a) 4
- b) 3
- c) unpredictable
- d) none

Ans. (b)

58. What is FAT?

- a) File Allocation Table
- b) File Access Table
- c) FDD Allocation Table
- d) None of the above

Ans. (a)

QUANTITATIVE APTITUDE TEST :

Total 44 questions are there.

1. How many degrees hours hand rotate in 10 minutes?

- a) 6°
- b) 5°
- c) 4°
- d) None of the above

Ans. (b)

2. $1/(10^{18}) - 1/(10^{20}) = ?$

- a) $99/10^{16}$
- b) $99/10^{14}$
- c) $99/10^{15}$
- d) None of the above

Ans. (a)

3. $0 < x < 1$: Which is greater ?

- a) $1/x^2$
- b) $1/x$
- c) x
- d) x^2

Ans. (a)

4. $c = a/b$; $a - 1 = c$ What is the relation between a & b . $b = ?$

- a) $a/(a-1)$
- b) $a/(a+1)$
- c) $(a+1)/a$
- d) None of the above

Ans. (a)

5. The sum of 7 consecutive odd integers with 27 as the fourth number.

- a) 183
- b) 181
- c) 185
- d) 179

Ans. (b)

6. For $(6666666666666666)^2 + 888888888888$, what is the number at the unit's place

- a) 2
- b) 4
- c) 8
- d) None of the above

Ans. (b)

7. 32736 Express it in product of 3 numbers.

- a) 41, 42, 43
- b) 31, 32, 33
- c) 32, 34, 33
- d) 38, 38, 33

Ans. (b)

8. Radius of sphere is increased by 50%. By how much percentage is surface area is increased.

- a) 150%
- b) 125%

- c) 128%
- d) 225%

Ans. (b)

9. In which of the following , 2 as a common factor , can be eliminated.

- a) $\log(x^2)/\log(y^2)$
- b) $(\log x * \log x * \log x)/(\log y * \log y * \log y)$
- c) $(\log x * \log x)/\log y$
- d) None of the above

Ans. (a)

Antonyms :

11. Auspiciously

12. Recalcitrant

13. & 14. - Sentence correction

15, 16 , 17 - Spelling Mistakes

18, 19 - Two Questions

6 letters are assigned certain numbers.

In each question , 4 combination of digits are given .

Find which gives a meaningful word.

20 & 21. - 4 sentences will be given in each question. Arrange them in logical order .

22. 5 straight lines are cut in a circle. A question regarding this.

In this section ,a question is followed by 2 statements A and B.Any one of these statements,or both are sufficient to answer the question.Mark your answer as :

- a) If statement A alone is required**
- b) If statement B alone is required**
- c) If both the statements A & B are required**

d) Neither of the statements are required

23. Does Mr. Mathew give tuition ?

- A) Mathew is a teacher
- B) In school, the teacher is not expected to give tuitions

Ans. (d)

24. There is no power cut in advanced country. If T is a city, Is there power cut in that city?

- A) Z is a advanced country
- B) T is a capital city of country Z

Ans. (c)

25. Tanzanians are in East Africa. Tanzanians are good in either education ,dance or music

- A) Tanzanians are good at Education
- B) East Africa are good at dance & Music.

Ans. (a)

Remaining questions 26 - 29 are of the same type.

30. On a single day, 14 children are admitted in a school by their mothers. 2 are sisters, 3 are brothers, 2 are brother and sister and 2 are twins. The rest are singles. How many mothers came?

- (a) 5
- (b) 7
- (c) 9
- (d) 14

Problem on cisterns & pipes.

31. It will take 8 hrs to fill a cistern. But due to leak at the bottom, it takes 10 hrs to fill it. In how many hrs, the full tank will be emptied because of the leak.?

- (a) 18
- (b) 8
- (c) 40

(d) 10

Ans. (c)

Question regarding men & work

32. A does alone a piece of work in 4 days.B does the same piece of work alone in 8 days.C does alone a work in 10 days.In how many days will A, B, C together complete the work

(a) 40/19

(b) 19/40

(c) 1/22

(d) 2

Ans. (a)

33. In 3.5 Kg rod , there is 74% silver. If it is alloyed with a 0.5 Kg rod, the % of silver goes up to 84%. The percent of silver in 0.5 Kg rod?

34. Two chords of lengths L1 and L2 are drawn in a circle. Their lengths are inversely proportional to the straight distance joining the centre.Find the radius of circle.

35. A Kg of tea costs Rs 49.50 . But the supplier gives 10 gms less for every Kg he sold. What is the actual cost.

(a) 49.001

(b) 49.005

(c) 49.01

(d) Same

Ans. (b)

Questions 36 - 40 are based on the transportation table.

	A	B	C	D	E
A	X	12	8	20	6
B	12	X	12	5	9
C	20	8	X	4	7
D	3	15	6	X	10
E	12	5	8	3	X

A,B,C,D,E denote the stages.

X denotes the start of the stage.

The bus goes from A to E and E to A with back stops at B,C, &D.

For each the charge is Rs.0.70.

The numbers in the table are how many passengers are there in the bus upto that stage.(the numbers given the table are not correct)

36. Total no. of passengers in onward journey

37. Total amount in the conductors bag just before the bus reaches the stage C

38. How many Rs. 1.40 tickets are issued to passengers in backward journey.

39. If the bus breaks down between the stages C & D , the amount refunded to passengers.

40. If the ticket costs Rs.1.50, how much is the profit in Backward journey.

[Back to top](#)

Mascot Sample Paper#2

[Home](#)

[Back To Mascot Page](#)

GENERAL APTITUDE TEST (Time:30 min)

SECTION 1:READING COMPREHENSION

.....

..(passage of one and half page.)

The question & answers based on this passage were given. There were 5 questions.
You shouldn't expect the same passage to be given to you but we havw written down the questions to give you a general view of the type of RC questions that you can expect

1. A reductive cycle is one in which
 - a. an employer attempts to reduce costs
 - b. the work-force is gradually reduced in number
 - c. costs decreases as....
 - d. there is less productive effort on the part of employees

Ans. (d)

2. If a substantial number of employees remain the reductive cycle one may assume that
 - a. the org. is enjoying increased business
 - b. the personnel dept....
 - c. the boss is not...
 - d. there is an unwholesome..

Ans. (a)

3. The passage indicates that unionisation of a worker...
 - a. opportunities for the workers realise..
 - b. opportunities for the workers to ...
 - c. more please working...

d. greater fringe benefits include

Ans. (d)

4. According to the author management failures in supervision mainly attributable to

- a. carrying...
- b. a soft-hearted...
- c. ignorance.
- d. lack of consideration.

Ans. (d)

5. Employees will get together to seek an improvement of conditions because of dissatisfaction stemming from

- i. social just
- ii. economic
- iii. moral decadence

- a. i only
- b. ii only
- c. i and ii only
- d. i & iii only

Ans. (d)

SECTION II:QUANTITATIVE AND NUMERICAL ABILITY

6. The monthly personal maintenance allowance for a family of an employee is determined by the average age of family and size of the family. Jacob was drawing rs.570 as PMA after he got married 6 years back.At present he draws Rs 720 as PMA with his family of 3 after the birth of son?

- a. 2 years
- b. 3 years
- c. 4 years
- d. 5 years

Ans. (d)

7. White collar sells a shirt for an amount. Due to off season sale white collar started offering a discount of 20% on tag price. come diwali, white collar offered a further discount of 10% on the reduced price. If i get the shirt for Rs 108 what was the original price?

- a. Rs.180
- b. 160
- c. 145
- d. none

Ans. (d)

8. A vertical stick 10-cm long casts a shadow 6 cm long on the ground under similar conditions a tower casts a shadow 10m long determine the height of the tower to the 2nd place of the decimal.

- a. 16.67m
- b. 17.70m
- c. 16.8m
- d. none

Ans. (a)

9. In the fig given below which curve rep.the monthly savage(*the fig.cannot be recollected by the candidate*)

- a. LR
- b. ST
- c. PQ
- d. none

Ans. (b)

10. Two poles of height 7m and 12m stand on a play ground. If the distance between their feet is 12m,find the distance between their tops.

- a. 12m
- b. 13m
- c. 11m
- d. none

Ans. (b)

SECTION III : ANALOGY

11. saint : holiness : : mongol :

- a. chinese
- b. barbarity
- c. tribal
- d. courageousness

Ans. (d)

12. entomologist : insects : : ornithologist :

- a. marine life
- b. birds
- c. wild life
- d. astronomy

Ans. (b)

13. ostracize : exclude : :

- a. war : death
- b. shipping : transport
- c. war : surrender
- d. population : people

Ans. (a)

14. rain : downpour : : joy :

- a. happiness
- b. triumph
- c. ecstasy
- d. laughter

Ans. (b)

15. niggardly : generous : : dolorous :

- a. understandable

- b. practical
- c. happy
- d. ostentatious

Ans. (d)

SECTION IV : INTELLIGENCE AND CRITICAL REASONING

16. Which one of the following is venn diagram true.(4 diagrams are there.)

17. In the given fig. (triangle.square.,circle)...

- a. A
- b. B
- c. D
- d. E

Ans. (b)

Direction : (18-20) : In column one are listed certain groups of individual while in column 2 are listed some of the characteristics against each group of individuals which are common to each member of that group

Coloumn1	Column 2
BCDFH	TU
DEGH	QRS
DEF	PN
ACDE	NS
GDE	PVQ
DEG	VQRS
CDE	VNO
BCD	VTs
ABD	PT

18. Which characteristics are found either in 'E' or 'F' or in both but not in 'H'?

- a. QRS
- b. NOP
- c. PVT
- d. UVW

Ans. (b)

19. Which character is common to 'B' & 'C' but is not present in 'H'?

- a. U
- b. V
- c. W
- d. T

Ans. (a)

20. Which characteristics are common to 'C' & 'E' but are not present in 'F'?

- a. T,V
- b. V,W
- c. T,U
- d. O,P

Ans. (d)

SECTION V : VERBAL ABILITY

In the following questions mark the option that is nearest to the given word

21. Synonym for **quixotic**

- a. rapid
- b. exotic
- c. longing
- d. timid
- e. idealistic

Ans. (e)

22. Antonym of **recondite**

- a. unfriendly
- b. easily comprehensive
- c. closely juxtaposed
- d. broad minded
- e. sardonic

Ans. (b)

23. antonym of **servile**

- a. moral
- b. pue
- c. futile
- d. foul
- e. haughty

Ans. (e)

24. Antonym of **tacit**

- a. spoken
- b. allowed
- c. neutral
- d. impertinent
- e. unwanted

Ans. (a)

25. Synonym for **macabre**

- a. musical
- b. frightening
- c. chewed
- d. wicked
- e. exceptional

Ans. (b)

SECTION VI : ANALYTICAL ABILITY

26. Fran: i want to stay out of ...

Sid:that's not true....

- a. makes unfair demands on her students
- b. only gives grades to a few favoured students
- c. never gives out grades of A

Ans. (c)

For Q27 - 28 A small passage was given.

The answers though are the following

27. The major logical weakness of the argument above is the fact that

- a. it draws meaningful distinction between hands out and subsidies
- b. it supports only the subsidy and does not provide the other side view.
- c. it draws no meaningful distinction between hands out and subsidies
- d. subsidies should not be given
- e. none of the above

Ans. (c)

28. Which of the following persons would be most likely to disagree with the conclusions reached above argument

- a. the president..
- b. the patenee of a new device designed to make the widget absolute
- c. the worker who worked with the patentee

Ans. (b)

29.- 30 (a small passage)

In a laboratory study, 160 rabbits in an experimental group were injected with serum d, while 160 rabbits in a control group were injected with in two weeks, 39% of the experimental group rabbits had contracted jungle fever, a highly contagious and usually fatal disease therefore jungle fever must be caused by some substance similar to the substance found in serum d

29. The above argument would be most greatly strengthened if it were shown that

- a. the normal...
- b. 40% of ..
- c. serum...
- d. the blood of jungle fever victims invariably contains a high level of a certain toxic substance also

Ans. (d)

30. The above argument would be most seriously weakened if it were shown that

- a. none of the rabbits in the experimental group had had jungle fever prior to the start of the experiment
- b. the rabbits in the experimental group had had jungle fever prior to the start of the experiment.
- c. some of the rabbits in the experimental group had had jungle fever prior to the start of the experiment .
- d. four of the rabbits had had jungle fever prior to the start of the experiment .
- e. one of the rabbits in the experimental group had had jungle fever prior to the start of the experiment

Ans. (e)

GENERAL TECHNICAL TEST

1) Which of the following language is a functional language

- a. RPG
- b. Small Talk
- c. PI/I
- d. LISP

Ans. (c)

2) What is the full form of ATM

- a. Automated teller machine
- b. All time money
- c. Asynchronous transfer mode
- d. Active test monitor

Ans. (c)

3) FDDI is a

- a. ring network
- b. star network
- c. mesh network
- d. bus based network

Ans. (a)

4) Which is pure object oriented language?

- a. Eiffel
- b. C++
- c. object pascal
- d. Small talk

Ans. (d)

5) x.25 transfer protocol is used for

- a. packet switching
- b. circuit switching
- c. framing
- d. datagram

Ans. (b)

6) What is the binary equivalent of decimal 269?

- a. 100001100
- b. 100001010
- c. 101001011
- d. 100001101

Ans. (c)

7) The 4NF is for

- a. related to Multi-Value Dependency
- b. related to transitive dependency
- c. related to function dependency
- d. non trivial function or multi value dependency

Ans.

8) The LRU algorithm

- a. pages out pages that have been used recently
- b. pages out pages that have not been used recently
- c. pages out pages that have been least used recently
- d. pages out the first page in given data

Ans. (c)

9) A search procedure which associates an address with a key value and provides a mechanism for dealing with two or more values assigned to the same address is called.

- a. linear search
- b. binary search
- c. hash coded search
- d. radix search

Ans. (c)

10) A t-switch is used to

- a. control how message are passed between computers
- b. echo every character that received
- c. transmit characters one at a time
- d. rearrange the

Ans. (c)

11) EE-ROM is

- a. electricity erasable
- b. easily erasable
- c. non erasable
- d. effective erasable

Ans. (a)

12) Which device can sense inventory data specified in bar codes?

- a. mouse
- b. light pen

- c. holographs
- d. joysticks

Ans. (c)

13) Corba stands for ...

- a. common object request broker architecture
- b. combined recovery based system
- c. code recovery bench architecture
- d. none of the above

Ans. (a)

14) Which is non-procedural language?

- a. effiel
- b. ada
- c. small talk
- d. sql

Ans. (a)

15) Which of the following language supports associative arrays?

- a. pl/i
- b. rpg
- c. perl
- d. ada

Ans. (c)

16) Which network protocol IBM mainframe and midrange support

- a. SNA
- b. TCP/IP
- c. X.25
- d. IEEE 802.5

Ans. (a)

17) The acronym DAN stands for

- a. data access network
- b. distributed area network

- c. desktop area network
- d. disk access node

Ans. (a)

18) The program fragment that follows is written in a block-structured language . Assume that it is syntactically correct and determine its output

```
begin
integer x,y;
x:=3;y:=7;
begin
integer x;
begin
integer y;
y:=9;
x:=2*y;
end;
x:=x+y;
print(x);
end;
print(x);
end;
```

- a. 25 27
- b. 27 27
- c. 27 3
- d. 25 3
- e. 25 25

Ans. (e)

19) Which of the following is responsible for coordinating various operations using timing signals?

- a. arithmetic-logic unit
- b. control unit
- c. memory unit
- d. input/output unit

Ans. (b)

20) Microprocessors can be used to make

- a. computers
- b. calculators
- c. digital systems
- d. all the above

Ans. (d)

21) FORTRAN implementation do not permit recursion because

- a. they use static allocation for variables
- b. they use dynamic allocation for variables
- c. stacks are not available on all machines
- d. it is not possible to implement recursion on all m/c s

Ans. (a)

22) What does the following code do

```
var a,b :integer
begin
a :=a+b
b :=a-b
a :=a-b
end;
```

- a. exchange a and b
- b. doubles a and stores in b
- c. leaves a and b unchanged
- d. none

Ans. (a)

23) For program segment given bellow, which of the following are true?

```
program main(output)
type link = ^data
data = record
d : record
n : link
end;
var ptr : link;
begin
new(ptr);
ptr :=nil;
```

```
ptr ^.d :=5.2
written(ptr);
end;
```

- a. the program leads to compile time error
- b. the program leads to run time error
- c. the program produces error relating to nil pointer dereferencing
- d. both b and a

24) What is the output of the program segment below if the compiler operates call byreference?

```
procedure CALC(P,Q,R);
begin
Q:=Q-1.0
R:=Q+P
end;
begin{main}
A:=2.5; B:=9.0;
CALC(B-A,A,A);
print(A);
end; {main}
```

- a. 1.5
- b. 2.5
- c. 10.5
- d. 8
- e. 6.5

Ans. (d)

25) Which of the following is not provided in C?

- a. test loops
- b. grouping and subprograms
- c. synchronization, coroutines,and parallel processing
- d. all the above

Ans. (c)

26) Data encryption

- a. is most used by public billboard networks

- b. is most used by public financial networks
- c. cannot be used by private installation
- d. is not necessary ..

Ans. (a)

27) An ideal compiler should

- a. be a smaller in size
- b. produce object code that is smaller in size and executes faster
- c. take less time of compiling
- d. all the above

Ans. (d)

28) What will be the value of x and y after execution of the following statment (C language)

`n== 5; x = n++; y = --x;`

- a. 5,4
- b. 6,5
- c. 6,6
- d. 5,5

Ans. (d)

29) For athe following code

```
1 i:=1;sum:=0;
repeat
begin
2 sum:=sum+1;
3 i:=i+1
end;
4 until i=n
```

let "A" represent the initialization(`i:=1;sum:=0`)of line 1.let "B"represent the summing action within the loop(loop 2),and let "i" represent the increment (line 3).if "T"represents the best contained in line 4,which of the following regular expressions represents all possiblee sequences of the steps taken by this program fragment?

- a. A(BIT)(BI) T
- B. A(BIT)

- C. A(BIT)
- D. A(BIT) T
- E. A(BIT) T

30) Consider the production grammer

$S \rightarrow AB$
 $S \rightarrow BC$
 $A \rightarrow WA$
 $A \rightarrow X$
 $B \rightarrow Y$
 $B \rightarrow ZB$
 $C \rightarrow W$

Consider this grammer together with one and only one of the productions (A) through(E).what production from the list may not be added to retain its status as an LL(1) grammer?

- a. $S \rightarrow CA$
- b. $S \rightarrow Z$
- c. $C \rightarrow Z$
- d. $C \rightarrow BC$
- e. More than one of the above

Ans.

31) Consider the function below:

```

function calc(x,y:integer):integer;
begin
if y=1
then calc:=x
else calc:=calc(x,y-1)+x
end;
    
```

assuming that the invocation call is "calc(a,b)"and that "a"and "b"are positive integers,what result does this function return?

- a. $a*(b-1)$
- b. $a*b$
- c. $a+b$
- d. a power b
- e. $a*b$

- a. queues
- b. stacks
- c. trees
- d. deque

Ans. (a)

36) A linear list in which elements can be added or removed at either end but not in the middle is known as

- a. queue
- b. deque
- c. stack
- d. tree

Ans. (a)

37) Which of the following sorting procedure is slowest

- a. quick sort
- b. heap sort
- c. shell sort
- d. bubble sort

Ans. (d)

38) How many 1's are present in the binary representation of $3 \times 512 + 7 \times 64 + 5 \times 8 = 3$?

- a. 8
- b. 9
- c. 10
- d. 11
- e. 12

Ans. (d)

39) File record length

- a. should always be fixed
- b. should always be variable
- c. depends upon the size of the file

d. should be choosen to match the data characteristics

Ans. (a)

40) NLP stands for

- a. natural language processing
- b. neuro logic programming
- c. normal logic pad
- d. nominal loadable process
- e. none

Ans. (a)

[Back to top](#)

Mahindra British Telecom

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

There are **105 questions** to be done in **70 minutes**. The test is further subdivided and includes

Quantitative Section (23Q)

Analytical Section (20Q)

Series& Venn Diagrams

Logical Section (20Q)

Reading Comprehension (10Q).

Flow Sheets

Time span for each section is different. There is negative marking. We think that the cut-off would have been around 35-40.

We recommend that you refer to RS Agarwal Verbal and Nonverbal book for more questions on the same pattern.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The interview is mostly HR kind with a few technical questions thrown in. Some easy software technical questions could be asked. For more details refer to our [Interview section](#).

[Back To The Top](#)

• Profile

In the year 1988, **Mahindra and Mahindra Ltd.** and **British Telecom plc.** came together to form a joint venture called **Mahindra British Telecom Ltd. (MBT)**. It started off by setting up a software development center for British Telecom in **Mumbai**. It recorded a revenue of **US \$ 54** million in the year **1999-2000**. MBT today is the **thirteenth largest** software exports company in India. (source DQ top 20, 2000). Headquartered in **Pune**, MBT has state-of-the-art development centers in **Pune, Mumbai** and **London** with **14 marketing offices** the world over.

MBT's key services include turnkey **software projects**, development and maintenance of **software solutions, product development, IT consulting** services, **software re-engineering, application outsourcing, systems integration, facilities management, database conversion, internet based development, business process re-engineering, QMS management**, etc. covering areas such as **Telecom, Internet, E-Business** and **Mobile Computing**.

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[Back To The Top](#)

MBT Sample Test Paper

[Home](#)[Back To MBT Page](#)

ARITHMETIC SECTION

This section consists of 29 problems. The questions are simple though time consuming.

1. If a boat is moving in upstream with velocity of 14 km/hr and goes downstream with a velocity of 40 km/hr, then what is the speed of the stream ?

- (a) 13 km/hr
- (b) 26 km/hr
- (c) 34 km/hr
- (d) none of these

Ans. A

2. Find the value of $(0.75 * 0.75 * 0.75 - 0.001) / (0.75 * 0.75 - 0.075 + 0.01)$

- (a) 0.845
- (b) 1.908
- (c) 2.312
- (d) 0.001

Ans. A

3. A can have a piece of work done in 8 days, B can work three times faster than the A, C can work five times faster than A. How many days will they take to do the work together ?

- (a) 3 days
- (b) 8/9 days
- (c) 4 days
- (d) can't say

Ans. B

4. A car travels a certain distance taking 7 hrs in forward journey, during the return journey increased

speed 12km/hr takes the times 5 hrs.What is the distance travelled

- (a) 210 kms
- (b) 30 kms
- (c) 20 kms
- (c) none of these

Ans. B

5. Instead of multiplying a number by 7, the number is divided by 7. What is the percentage of error obtained ?

6. Find $(7x + 4y) / (x-2y)$ if $x/2y = 3/2$?

- (a) 6
- (b) 8
- (c) 7
- (d) data insufficient

Ans. C

7. A man buys 12 lts of liquid which contains 20% of the liquid and the rest is water. He then mixes it with 10 lts of another mixture with 30% of liquid.What is the % of water in the new mixture?

8. If a man buys 1 lt of milk for Rs.12 and mixes it with 20% water and sells it for Rs.15, then what is the percentage of gain?

9. Pipe A can fill a tank in 30 mins and Pipe B can fill it in 28 mins.If 3/4th of the tank is filled by Pipe B alone and both are opened, how much time is required by both the pipes to fill the tank completely ?

10. If on an item a company gives 25% discount, they earn 25% profit. If they now give 10% discount then what is the profit percentage.

- (a) 40%
- (b) 55%
- (c) 35%
- (d) 30%

Ans. D

11. A certain number of men can finish a piece of work in 10 days. If however there were 10 men less it will take 10 days more for the work to be finished. How many men were there originally?

- (a) 110 men
- (b) 130 men
- (c) 100 men
- (d) none of these

Ans. A

12. In simple interest what sum amounts of Rs.1120/- in 4 years and Rs.1200/- in 5 years ?

- (a) Rs. 500
- (b) Rs. 600
- (c) Rs. 800
- (d) Rs. 900

Ans. C

13. If a sum of money compound annually amounts of thrice itself in 3 years. In how many years will it become 9 times itself.

- (a) 6
- (b) 8
- (c) 10
- (d) 12

Ans A

14. Two trains move in the same direction at 50 kmph and 32 kmph respectively. A man in the slower train observes the 15 seconds elapse before the faster train completely passes by him. What is the length of faster train ?

- (a) 100m
- (b) 75m
- (c) 120m
- (d) 50m

Ans B

15. How many meshes are there in 1 square meter of wire gauge if each mesh

is 8mm long and 5mm wide ?

- (a) 2500
- (b) 25000
- (c) 250
- (d) 250000

Ans B

16. $x\%$ of y is $y\%$ of ?

- (a) x/y
- (b) $2y$
- (c) x
- (d) can't be determined

Ans. C

17. The price of sugar increases by 20%, by what % should a housewife reduce the consumption of sugar so that expenditure on sugar can be same as before ?

- (a) 15%
- (b) 16.66%
- (c) 12%
- (d) 9%

Ans B

18. A man spends half of his salary on household expenses, $\frac{1}{4}$ th for rent, $\frac{1}{5}$ th for travel expenses, the man deposits the rest in a bank. If his monthly deposits in the bank amount 50, what is his monthly salary ?

- (a) Rs.500
- (b) Rs.1500
- (c) Rs.1000
- (d) Rs. 900

Ans C

20. The population of a city increases @ 4% p.a. There is an additional annual increase of 4% of the population due to the influx of job seekers, find the % increase in population after 2 years ?

21. The ratio of the number of boys and girls in a school is 3:2 Out of these 10% the boys and 25% of

girls are scholarship holders. % of students who are not scholarship holders.?

22. 15 men take 21 days of 8 hrs. each to do a piece of work. How many days of 6 hrs. each would it take for 21 women if 3 women do as much work as 2 men?

- (a) 30
- (b) 20
- (c) 19
- (d) 29

Ans. A

23. A cylinder is 6 cms in diameter and 6 cms in height. If spheres of the same size are made from the material obtained, what is the diameter of each sphere?

- (a) 5 cms
- (b) 2 cms
- (c) 3 cms
- (d) 4 cms

Ans C

24. A rectangular plank $(2)^{1/2}$ meters wide can be placed so that it is on either side of the diagonal of a square shown below.(Figure is not available)What is the area of the plank?

Ans : $7 \times (2)^{1/2}$

25. The difference b/w the compound interest payable half yearly and the simple interest on a certain sum lent out at 10% p.a for 1 year is Rs 25. What is the sum?

- (a) Rs. 15000
- (b) Rs. 12000
- (c) Rs. 10000
- (d) none of these

Ans C

26. What is the smallest number by which 2880 must be divided in order to make it into a perfect square ?

- (a) 3
- (b) 4

- (c) 5
- (d) 6

Ans. C

27. A father is 30 years older than his son however he will be only thrice as old as the son after 5 years what is father's present age ?

- (a) 40 yrs
- (b) 30 yrs
- (c) 50 yrs
- (d) none of these

Ans. A

28. An article sold at a profit of 20% if both the cost price and selling price would be Rs.20/- the profit would be 10% more. What is the cost price of that article?

29. If an item costs Rs.3 in '99 and Rs.203 in '00.What is the % increase in price?

- (a) 200/3 %
- (b) 200/6 %
- (c) 100%
- (d) none of these

Ans. A

LOGICAL SECTION

Directions: For questions 30-39 fill the missing number or letter in the given series

30. a, c, e, g, _

- (a) h
- (b) i
- (c) d
- (d) j

Ans. B

31. a, e, i, m, q, u, __, __

- (a) y,c
- (b) b,f
- (c) g,i
- (d) none

Ans. A

32. ay , bz , cw , dx ,__

- (a) gu
- (b) ev
- (c) fv
- (d) eu

Ans. D

33. 1, 2, 3, 5, 7, 11, __

- (a) 15
- (b) 9
- (c) 13
- (d) 12

Ans. C (series of prime numbers)

34. kp , lo , mn , __

- (a) nm
- (b) np
- (c) op
- (d) pq

Ans. A

35. R,M,__,F,D,__,

- (a) I, C
- (b) A, Q
- (c) L, N
- (d) B, Q

Ans. A

36. ____, ayw, gec, mki, sqo

- (a) awx
- (b) usq
- (c) prs
- (d) lmn

Ans. B

37. 1, 3, 4, 8, 15, 27, __

- (a) 60
- (b) 59
- (c) 43
- (d) 50

Ans D

38. 0, 2, 3, 5, 8, 10, 15, 17, 24, 26, __

- (a) 45
- (b) 55
- (c) 35
- (d) 48

Ans. C

39. 2, 5, 9, 19, 37, __

- (a) 64
- (b) 55
- (c) 75
- (d) 40

Ans C

Directions for questions 40 to 45: Select the alternative that logically follows form the two given statements.

40. All scientists are fools. All fools are literates.

- (a) All literates are scientists
- (b) All scientists are literates
- (c) No scientists are literates
- (d) Both (a) and (b) are correct

Ans. B

41. No apple is an orange. All bananas are oranges.

- (a) All apples are oranges
- (b) Some apples are oranges
- (c) No apple is a banana
- (d) None of the above

Ans. A

42. All pens are elephants. Some elephants are cats.

- (a) Some pens are cats
- (b) No pens are cats
- (c) All pens are cats
- (d) None of the above

Ans. D

43. All shares are debentures. No debentures are deposits.

- (a) All shares are deposits
- (b) Some shares are deposits
- (c) No shares are deposits
- (d) None of the above

Ans. C

44. Many fathers are brothers. All brothers are priests.

- (a) No father is a priest
- (b) Many fathers are not priests
- (c) Many fathers are priests
- (d) Both (b) and (c)

Ans. B

45. Some green are blue. No blue are white.

- (a) No green are white
- (b) Some green are white
- (c) No green are white
- (d) None of the above

Ans. B

46. If the word "CODING" is represented as DPEJOH , then the word "CURFEW" can be represented?

- (a) dvsgfx
- (b) dvshfx
- (c) dgshfx
- (d) dtsgfy

Ans. A

47. If in a certain code "RANGE" is coded as 12345 and "RANDOM" is coded as 123678, then the code for the word "MANGO" would be

- (a) 82357
- (b) 84563
- (c) 82346
- (d) 82543

Ans. D

*Directions for questions 48-50:*The questions are based on the following data

In a class of 150 students 55 speak English;85 speak Telugu and 30 speak neither English nor Telugu

48. How many speak both English and Telugu?

- (a) 10
- (b) 15
- (c) 20
- (d) 12

Ans. C

49.How many speak only Telugu?

- (a) 55
- (b) 45
- (c) 65
- (d) none of the above

Ans.C

50.How many speak at least one of the two languages?

- (a) 120
- (b) 100
- (c) 250
- (d) 50

Ans. A

Refer R.S Agarwal books for more questions of the same kind

Verbal -- Page 254 problems 53 to56

246 eg.2

Page 104 Exercise.3a (Series Questions)

Page 354-355 8,13,

Page 115

Nonverbal -- Pages 5,41,54,108,145,158

[Back to top](#)

Novell Netware

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written paper is of **one hour duration and consists 30 questions which are divided into three sections:**

- **Aptitude** Section - 15 questions in 20 minutes.
- **Technical** Section - 25 questions in 20 minutes.
- **C Programming** Section - 15 questions in 20 minutes.

In the technical section, questions from **Microprocessors, Operating Systems, Computer Networks etc.** are asked.

All questions are multiple choice type.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The interview as usual lays stress on your technical stream. **Questions from C, C++, Operating Systems, Computer Networks will be asked.**

The panel will also **ask about your favourite subject.** You should have a good grasp on the subject because you will be grilled on those subjects.

To know more about the interview we suggest that you look at the [Interview Section](#) in our site.

[Back To The Top](#)

• Profile

Incorporated in 1983, Novell helped create the local-area network (LAN) market by delivering server operating system software for storing shared files and providing access to network printers. With the shipment of NDS and directory-enabled NetWare in 1994, Novell built on its early success with product that tie together LANs into wide-area networks (WANs), and control and manage the information resources of the entire enterprise. **Novell software provides an infrastructure for controlling and managing networks that include hardware and software products from many different vendors.** Support is provided for: desktop workstations running varied operating systems, from the UNIX System to NT and other versions of Windows; servers running operating systems from Novell, Microsoft and leading UNIX providers; line-of-business applications; network applications based on JAVA; intranet and Internet technologies from Citrix, Sun/Netscape and others; mainframe environments from IBM and others; and data communications devices from Lucent, Nortel Bay and Cisco. **Novell has facilities in over 20 countries** and maintains an international network of distributor, reseller, education, and services partners.

For more information about this company visit their homesite at www.novell.com

[Back To The Top](#)

Novell Netware Sample Test Paper

[Home](#)

[Back To Novell Page](#)

The paper consists of three sections.

1. Aptitude 15 questions 20 min
2. System concepts 20 questions 20 min.
3. 'C' 15 questions 20 min.

Section 1

Question 1 to 5 have to be answered on the basis of the information given below:

On Sunday, December 23, four ships were berthed at the Port.

- Ship W left at 4 PM on Sunday, December 23, for a series of 8-day cruises to Bermuda and Nassau.
- Ship X left at 4:30 PM on Sunday, December 23, for a series of alternating 11-day and 13-day cruises.
- Ship Y sailed at 5 PM on Sunday, December 23, for a series of 5-day cruises to Bermuda.
- Ship Z sailed on Monday, December 24, for a series of 7-day cruises to Nassau.

Each cruise begins on the day after departure.

Each ship is scheduled to return to the Port early in the morning after the last day of the cruise and leave again in the afternoon of the same day.

(From 1999 Barrons GRE book Model Test 3 - Section 5 - Q8 to Q12)

1. On December 31, which ships will be sailing from the Port on a New Year's Eve.

- (a) W and X
- (b) X and Y
- (c) W and Z
- (d) X and Z
- (e) X, Y and Z

Ans: (c)

2. On how many sailing dates between December 24 and February 28 will ship W be moored alongside another ship

- (a) 0
- (b) 2
- (c) 4
- (d) 5
- (e) 6

Ans: (d)

3. On how many occasions between December 24 and February 28 will three ships be moored at the Port.

- (a) 0
- (b) 1
- (c) 2
- (d) 3
- (e) 4

Ans: (a)

4. On which day of the week will these four ships make most of their departures?

- (a) Sunday
- (b) Monday
- (c) Tuesday
- (d) Thursday
- (e) Saturday

Ans: (b)

5. On which days of the week in the period between December 24 and February 28 will the pier be least crowded?

- (a) Tuesday and Friday
- (b) Tuesday and Thursday
- (c) Friday and Saturday
- (d) Wednesday and Thursday
- (e) Thursday and Saturday

Ans: (a)

6. A family with a husband, his wife and their child are at one side of river.

They want to cross the river on a boat. The child can't be left alone.

The only available boat can hold only one person and the boatboy.

Only the boatboy can row the boat.

What is the minimum number of trips from one bank to the other, that the boatboy has to make for the whole family to reach the other side.

Question 7 to 10 have to be answered on the basis of the information given below:

The workweek in a small business is a five-day workweek running from Monday through Friday. In each workweek, activities L,M,N,O and P must all be done. The work is subject to the following restrictions:

- L must be done earlier in the week than O and earlier than P
- M must be done earlier in the week than N and earlier than O
- No more than one of the activities can ever be done on any one day

7. Which of the following is an acceptable schedule starting from Monday to Friday

- a) L, M, N, O, P
- b) M, N, O, N, M
- c) O, N, L, P, M
- d) P, O, L, M, L
- e) P, O, L, M, N

Ans. (a)

8. Which of the following pair of activities could be done on Monday and Tuesday

- a) L and O
- b) M and L
- c) M and P
- d) N and O
- e) O and M

Ans. (b)

9. If P and N are done on Thursday and Friday, then which of the following is true

- a) L is done on Tuesday
- b) L is done on Wednesday
- c) M is done on Monday
- d) O is done on Tuesday
- e) O is done on Wednesday

Ans. (e)

10. Which of the following could be true

- a) L on Friday
- b) M on Thursday
- c) N on Monday
- d) O on Monday
- e) P on Tuesday

Ans. (e)

Rest of the paper is based on similar questions.

I donot remember them completely but I'll just give a basic idea about them below

* 5 programs are sheduled from monday to saturday, monday is not holiday, PQRST are the programs. The day before P is holiday, and some other clues are given, we have to find the sequence (4 questions)

* Suppose U R the presoner, There are two guards Who will tell truth or one will tell truth. There is a gate for liberty and another foe hell. asking about which sequencing is sufficient to find the gate for liberty??

* There are 7 targets, A B and C has to shoot them. All should be shot down consecutively.

1. The number of chances for A and B are not less then 2,
2. C has only one chance
3. A can't shot 3 times consicutively.
4. B is permitted to shoot in even chances only.

They have given some 2 or 3 MCQ questions on this.

Section 2

1. Encryption and decryption is done in the following layer.

- a) DLL
- b) Network layer
- c) Transport
- d) Presentation

Ans: (d)

2. Floating point has different formats on two different machines.

This modifications are taken care by which layer?

- a) DLL
- b) Network layer
- c) Transpor layer
- d) Presentation

Ans: (d)

3. Time complexity of quick sort algorithm is

- a) $N*N$
- b) $\log(N)$
- c) $N*\log(N)$
- d) N

Ans: (c)

4. Time complexity of AVL tree is .

- a) $N*N$
- b) $\log(N)$
- c) $N*\log(N)$
- d) N

Ans: (b)

5. Cycle stealing is used in which concept?

- a) Programmed I/O
- b) DMA
- c) Interrupts

Ans: (b)

6. How many octets are there in an IP address

- a) 6
- b) 8
- c) 10
- d) 12

7. What are the maximum number of hosts that can be served by an IP

- a) 254
- b) 256
- c) 2^{24} (2 to the power 24)

8. Which of the following is model representation of life cycle software

- a) Water fall model
- b) Spiral

9. The purpose of reviewing code is

- a) To find syntax error
- b) To check for the proper design

10. Semaphores are used for the resolution of

- a) Contention

b) Accessing of same resources by more than one

11. In threading of processes when the race condition will happen

- a) Low priority process
- b) Higher priority process

(See O.S. Concepts by Silberschatz)

12. Which of the following function is not performed by O.S.

- a) CPU scheduling
- b) Memory management
- c) Transaction

Ans: (c)

13. If two application programmes use same libraries which of the following are shared

- a) Lib code
- b) Code and stack
- c) Data
- d) Data, code and stack

14. Which is the maximum 16 bit signed integer.

- a) 66337
- b) 66338
- c) 257
- d) 258

15. When will interrupt occur?

- a) Divide by zero
- b) DMA completed
- c) Insufficient memory

16. Which of the following has low power consumption

- a) EIL
- b) CMOS
- c) Totempole Arrangement

17. Which of the following is the wrong statement

- a) Combinational circuits has memory
- b) Sequential circuits has memory
- c) Sequential circuits is a function of time

Ans: (a)

18. Virtual address is

- a) More than physical address
- b) Less than physical memory
- c) Equal to physical memory
- d) None

Ans : (a)

19. Which of the following reduces CPU burden

Ans : DMA

20. Malloc function allocates memory at

- a) compilation time
- b) link
- c) load
- d) running

Ans: d

Section 3

1. Max value of SIGNED int

2. A long C program is given -- try to be familiar with few of the concepts listed below

```
int *num={10,1,5,22,90};
main()
{
int *p,*q;
int i;
p=num;
q=num+2;
i=*p++;
print the value of i, and q-p, and some other operations are there.
}
how the values will change?
```

3. One pointer diff is given like this:

```
int (*p[10])(char *, char*)
```

Explain the variable assignment

4. `char *a[4]={ "jaya","mahe","chandra","buchi" };
What is the value of sizeof(a) /sizeof(char *)`

5. For the following C program

```
void fn(int *a, int *b)
{int *t;
t=a;
a=b;
b=t;
}
```

```
main()
{int a=2;
int b=3;
fn(&a,&b);
printf("%d,%d", a,b);
}
```

What is the output?

- a) Error at runtime
- b) Compilation error
- c) 2 3
- d) 3 2

6. For the following C program

```
#define scanf "%s is a string"
main()
{printf(scanf,scanf);
}
```

What is the output.

Ans. %s is string is string

7. For the following C program

```
{char *p="abc";
char *q="abc123";
while(*p==*q)
print("%c %c",*p,*q);
}
```

- a) aabbcc
- b) aabbcc123
- c) abcabc123
- d) infinite loop

8. What is the value of the following:

```
printf("%u",-1)
```

- a) -1
- b) 1
- c) 65336

9. For the following C program

```
#define void int  
int i=300;  
void main(void)  
{int i=200;  
{int i=100;  
print the value of i;}  
print the value of i;}
```

What is the output?

10. For the following C program

```
int x=2;  
x=x<<2;  
printf("%d ",x);
```

Ans. 8

11. For the following C program

```
int a[]={0,0X4,4,9}; /*some values are given*/  
int i=2;  
printf("%d %d",a[i],i[a]);
```

What is the value?

[Back to top](#)

Nucleus

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of three sections.

Section 1 is an **aptitude section** and consists of **MCQ's**

Section 2 is **technical section** and also has **MCQ's** with questions concerning **OS** and programming languages like **C , Cobol and Java**

[Click here to see the sample test](#) **NEW!**

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it consists of both technical grilling and HR interview. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews

[Back To The Top](#)

• Profile

Nucleus Software Offshore Ltd. (NUCLEUS) was incorporated as a separate entity in 1994, with an objective of extending dedicated IT support to Citibank in Mumbai and providing quality IT solutions to the Business world. Starting from a handful of professionals, NUCLEUS India now **employs 150 trained professionals** from the leading engineering colleges in India. We have established ourselves in the fields of Bespoke Software Development, Software Maintenance & Support, Software Implementation & Conversion, Product Development and Software Project Consulting.

When the Reserve bank of India, India's central bank wanted to develop software for its offshore surveillance of Non Banking Finance Companies, it chose NUCLEUS as its partner.

NUCLEUS operates from its own **premises** in Mumbai. Nucleus has **two development centres**. One development centre is a **dedicated unit for Citibank** support. This centre is located next to Citibank premises in Parel, Mumbai. The other centre is located in the up coming suburb of Mumbai-Andheri. This site seats the RBI and other client teams.

NUCLEUS undertakes assignments on **Project Cost basis and Time and Material** basis. Their major *strength*, however, lies in the area of **Banking and Financial applications**.

For further details visit their websiteat: www.nucsoft.com

[Back To The Top](#)

Nucleus Sample Test Paper

[Home](#)

[Back To Nucleus Page](#)

Aptitude Section

Q. 5 men or 8 women do equal amount of work in a day. a job requires 3 men and 5 women to finish the job in 10 days how many woman are required to finish the job in 14 days.

- a) 10
- b) 7
- c) 6
- d) 12

Ans 7

Q. A simple interest amount of rs 5000 for six month is rs 200. what is the anual rate of interest?

- a) 10%
- b) 6%
- c) 8%
- d) 9%

Ans 8%

Q. In objective test a correct ans score 4 marks and on a wrong ans 2 marks are ---. a student score 480 marks from 150 question. how many ans were correct?

- a) 120
- b) 130
- c) 110
- d) 150

Ans130.

Q. An artical sold at amount of 50% the net sale price is rs 425 .what is the list price of the artical?

- a) 500
- b) 488
- c) 480
- d) 510

Ans 500

Technical Section

Q. You are creating a Index on EMPNO column in the EMPLOYEE table. Which statement will you use?

- a) CREATE INdEX emp_empno_idx ON employee, empno;
- b) CREATE INdEX emp_empno_idx FOR employee, empno;
- c) CREATE INdEX emp_empno_idx ON employee(empno);
- d) CREATE emp_empno_idx INdEX ON employee(empno);

Ans. c

Q. Which program construct must return a value?

- a) Package
- b) Function
- c) Anonymous block
- d) Stored Procedure
- e) Application Procedure

Ans. b

Q. Which Statement would you use to remove the EMPLOYEE_Id_PK PRIMARY KEY constraint and all depending constraints fromthe EMPLOYEE table?

- a) ALTER TABLE employee dROP PRIMARY KEY CASCAdE;
- b) ALTER TABLE employee dELETE PRIMARY KEY CASCAdE;
- c) MODIFY TABLE employee dROP CONSTRAINT employee_id_pk CASCAdE;
- d) ALTER TABLE employee dROP PRIMARY KEY employee_id_pk CASCAdE;
- e) MODIFY TABLE employee dELETE PRIMARY KEY employee_id_pk CASCAdE;

Ans. a

Q. Which three commands cause a transaction to end? (Chosse three)

- a) ALTER
- b) GRANT
- c) DELETE
- d) INSERT
- e) UPdATE

f) ROLLBACK

Ans. a ,b ,f

Q. Under which circumstance should you create an index on a table?

- a) The table is small.
- b) The table is updated frequently.
- c) A columns values are static and contain a narrow range of values
- d) Two columns are consistently used in the WHERE clause join condition of SELECT statements.

Ans.d

Q. What is the common standard naming convention of checkbox control?

- a) CHB
- b) CHK
- c) CHX
- d) CBX

Q. Which of the function returns a reference to an object provided by an ActiveX component.

- a) createobject
- b) getobjectname
- c) createobjectx
- d) getobject

Q. We have something like Global functions in JAVA, they are called as

- a) class
- b) package
- c) file
- d) include

Q. Which all OS supports Networking?

- a) Windows 95
- b) Linux
- c) Windows 3.0
- d) Unix

Q. Which of the following is not an RdbMS?

- a) Ingres
- b) Oracle
- c) Unify
- d) Clipper

Q. Shell function in VB is used for calling

- a) Another Function
- b) Another Procedure
- c) Another Application
- d) None

Q. The RdbMS which satisfies the most number of its Principle among the followings

- a) MS SqlServer
- b) Oracle 7.3
- c) Informix
- d) Sybase

Q. Normalization is considered to be complete when it is in

- a) Second Form
- b) Third Form
- c) First Form
- d) None

Q. Two databases can be connected with

- a) Where Clause
- b) creating link
- c) using dbo.<database>
- d) Both B & C

Q. C++ is similar to that of C in following ways

- a) C++ has classes
- b) Supports Inheritance
- c) File Handling
- d) None

Q. Which of the following is not system file.

- a) .ini
- b) .sys
- c) .com
- d) None

Q. Following command is used to register any dll or ocx in registry of the system

- a) regserver32
- b) registersvr
- c) regsrv32
- d) regsvr32

Q. Which keyword is used to unregister any dll or ocx in registry of the system

- a) -u
- b) -r
- c) -d
- d) -x

Q. Which is not the most important & widely used form of Normalization ?

- a) Boyce-Codd Normal Form
- b) Second Form
- c) Third Form
- d) Royce-Codd Normal Form

Q. How can the word YES be stored in any array.

- a)
array[1] = 'Y'
array[2] = 'E'
array[3] = 'S'
array[4] = '\0'
- b)
array[0] = "Y"
array[1] = "E"
array[2] = "S"
array[3] = "\0"

c)
array[1] = "Y"
array[2] = "E"
array[3] = "S"
d)
array[0] = 'Y'
array[1] = 'E'
array[2] = 'S'
array[3] = '\0'

Q. Which of the following keyword is used to exit unconditionally from the batch?

- a) go
- b) return
- c) Begin & End
- d) Commit Tran

Q. != is a ----- operator.

- a) relational
- b) logical
- c) String
- d) arithmetic

Q. What was the first name given to Java Programming Language.

- a) Oak - Java
- b) Small Talk
- c) Oak
- d) None

Ans.a

Q. The syntax of Java is similar to that of

- a) C
- b) Small Talk
- c) FORTRAN
- d) C++

Q. Which of the following statement is true

Table in a database can have

- a) One Non-Clustered Index and Many Clustered Indexes.
- b) One Clustered Index and Many Non-Clustered Indexes.
- c) One Index each of Clustered and Non-Clustered Index.
- d) None

Q. Check the error in the following statement

```
Country[7] = 'CANADA'
```

- a) A string terminator is not added to the string, when declared.
- b) Country array should be of six
- c) Canada should be specified in double quotes.
- d) Country array should have the keyword char to ensure array type.

Q. An application updates table "A", which causes trigger T1 to fire. T1 updates table "B", which in turns fires trigger T2. T2 updates table "A", which causes trigger T1 to fire again. This is an example of

- a) Indirect Recursive Trigger
- b) direct Recursive Trigger
- c) Multiple Trigger
- d) Non Recursive Trigger

Q. Linda wants to obtain the nearest integer of a numeric expression for some calculation purpose. Which mathematical function will she use:

- a) Round
- b) ABS
- c) About
- d) None

Q. Alphanumeric constants are

- a) used for arithmetic calculations
- b) Used with double quotas
- c) Of integer type or float type
- d) Not used for arithmetic calculations

Q. Pseudocode is a

- a) set of Instructions to perform a particular task
- b) is a formalized graphic representation of program logic.
- c) is a algorithm expressed in a simple language
- d) Both A & C

Q. A company has closed down its advertisement dept and is now getting all advertisement done by an Ad-Agency. All 20 people working in the dept has quit the job. The dept to which an employee belonged was stored in the "cdept" attribute of "emp" table. Which of the following statement would be used to do the changes in the "emp" table

- a) Alter Table
- b) Drop Table
- c) Delete Table
- d) Truncate Table

Q. John wants to retrieve all records from students table who live in any city beginning with WAS . Which of the following statement is to be executed by him

- a) Select * from students where city = 'WAS'
- b) Select * from students where city = 'WAS%'
- c) Select * from students where city in 'WAS'
- d) Select * from students where city like 'WAS%'

Q. Why is a Modulo operator used?

- a) It is used to determined the remainder, when an integer is divided by another.
- b) It is used to calculate the percentage
- c) It is used to determine the factorial of a number.
- d) It is used as a relational operator.

Q. Consider the following program:

```
character cName[5] = 'great'
Numeric nNum1,nNum2 =0
```

```
For (nNum1 = 0;nNum1=>5;nNum1++)
{
if(cName[nNum1] == 'a' | cName[nNum1] != 'e' | cName[nNum1] == 'i' | cName[nNum1] != 'o' |
cName[nNum1] == 'u'|)
{
nNum2 ++
```



```
}  
}  
display nNum2
```

What does nNum2 display.

- a) 2
- b) 1
- c) 5
- d) 3

[Back to top](#)

Patni Computer Systems (PCS)

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• About the Written Test

The written test consists of **aptitude** and **technical** questions. The current pattern contains **20 questions** to be done in **50 minutes** and there is **negative marking**. Earlier the pattern was of 4 to 5 sections with questions of **MCQ** type. The sections were divided into **analytical ,verbal , assertion and reasoning** and **data sufficiency**. The former pattern is more commonly used in the tests.

[Click here to see the sample test.](#)

• About the Interview

The interview is preceded by a **group discussion** where the topics given are very general in kind. In the interview more stress is placed on HR, though technical questions (primarily on **C/C++**) and puzzles too are to be expected. We would suggest that you take a look at the [Interview section](#) to get a better idea and view some useful tips for taking interviews.

[Click here to see sample group discussion topics](#)

[Back To The Top](#)

• Profile of the Company

Patni Computer Systems (PCS) is an international software and applications outsourcing specialist, with over 20 years of experience. Founded in 1978, PCS now offers a wide range of services, including: **application development / maintenance, ERP implementation & related services, E-Commerce & Web enabling solutions, Euro conversion, staff augmentation and offshore development.**

PCS currently employs over 3400 software professionals at our primary development facilities in **Mumbai, Navi Mumbai, Pune, Gandhinagar, Chennai** and **NOIDA (India)**.

PCS provides services to a varied field including **Airlines, Automotive, Financial Services, Electronics, Healthcare, Hospitality, Manufacturing, Products**, and **Utilities**.

For **more information** about this company visit their homesite at www.patni.com

[Back To The Top](#)

PCS Sample Test

[Home](#)
[Back To PCS Page](#)

Q. A man leaves office daily at 7pm A driver with car comes from his home to pick him from office and bring back home

One day he gets free at 5:30 and instead of waiting for driver he starts walking towards home.

In the way he meets the car and returns home on car He reaches home 20 minutes earlier than usual.

In how much time does the man reach home usually??

Ans. 1hr 20min

Q The following truth table is given What is Y equal to??

A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	1

Ans. $(A')(B')(AB)$, where ' stands for complement.

Q. A works thrice as much as B. If A takes 60 days less than B to do a work then find the number of days it would take to complete the work if both work together?

Ans. 22½days

Q. How many 1's are there in the binary form of $8*1024 + 3*64 + 3$

Ans. 4

Q. In a digital circuit which was to implement $(A \cdot B) + (A \oplus B)$, the designer implements $(A \cdot B)$

(A)XOR(B)

What is the probability of error in it ?

Q. A boy has Rs 2. He wins or loses Re 1 at a time. If he wins he gets Re 1 and if he loses the game he loses Re 1.

He can lose only 5 times. He is out of the game if he earns Rs 5.

Find the number of ways in which this is possible?

Ans. 16

Q. If there are 1024×1280 pixels on a screen and each pixel can have around 16 million colors

Find the memory required for this?

Ans. 4MB

Q. On a particular day A and B decide that they would either speak the truth or will lie.

C asks A whether he is speaking truth or lying?

He answers and B listens to what he said. C then asks B what A has said. B says "A says that he is a liar"

What is B speaking ?

- (a) Truth
- (b) Lie
- (c) Truth when A lies
- (d) Cannot be determined

Ans. (b)

Q. What is the angle between the two hands of a clock when time is 8:30

Ans. 75(approx)

Q. A student is ranked 13th from right and 8th from left. How many students are there in total?

Q. A man walks east and turns right and then from there to his left and then 45 degrees to his right. In which direction did he go

Ans. North west

Q. A student gets 70% in one subject, 80% in the other. To get an overall of 75% how much should get

in third subject.

Q. A man shows his friend a woman sitting in a park and says that she the daughter of my grandmother's only son.

What is the relation between the two

Ans. Daughter

[Back to top](#)

PCS Sample GD topics

[Home](#)

[Back To PCS Page](#)

PCS usually tests the candidates selected on the basis of the written paper through a group discussion session. The stress here is to test the ability of the candidate to think logically and present these thoughts in a lucid manner.

The candidates are given a scenario and conditions applying to it and have to reach a decision according to the data. They will then be asked to explain their respective decisions.

Here are a couple of sample GD topics:

1. In space ship 5 people are going in a spacecraft to another planet to start a civilization.

These are:

- Male doctor who is a drug addict
- Lady lawyer who has committed murder
- Lady teacher who is emotionally imbalanced
- 18 year old brilliant aeronautical engineer
- Male Noble prize winner

Suddenly some thing happens and oxygen is available to only three people to use. Which three would you choose

Hint :

1. You need atleast 1 lady to have future generations.
2. Aeronautical engineer can be a female
3. Doctor is necessary to deal with new diseases.

2. In 2050 a nuclear disaster has occurred and 50 persons are saved. These are of age above 15. Among them these people know 5 subjects and you have to choose only 3 of five subjects so that restricted resources can be used for future.

The subjects are:

- Engineering
- Medicine
- Law
- Social Sciences
- Life Sciences

[Back to top](#)

Ramco Systems Ltd

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of both **aptitude** and a **technical** test.

The **aptitude** section of the test has **60 Questions** of **MCQ** type. These further consist of **30** Questions each on **Quantitative** and **Verbal**. A good guide for this section will be Baron's GRE preparation book. The **technical** section is based mostly on **C** concepts and programming.

[Click here to see the sample aptitude test.](#)

[Click here to see the sample C test.](#)

[Back To The Top](#)

• Interview

The information on the interview is pretty sketchy but it consists of both technical grilling and HR interview. We would suggest that you take a look at the [Interview section](#). to get a better idea and view some useful tips for taking interviews.

[Back To The Top](#)

• Profile

Ramco Systems started out in **1989** as a division of Ramco Industries Ltd, part of the 60 year old **Ramco Group**. Ramco Systems was spun off an independent company in **April 1999**. Today, Ramco Systems

employs over **1200 software professionals** and business analysts operating out of a **120,000 square feet technology center** in **Chennai (Madras), India** and subsidiary companies in **Asia (India, Malaysia, Singapore), Europe (Switzerland, UK), and USA**. Ramco Systems is a leading provider of **high-end software solutions**. They work in key IT fields like **E-commerce applications, ERP, Human resources management, Real time solutions, Enterprise asset management, IT consulting services** and **Networking Solutions**.

Ramco solutions run at over **650** customer locations worldwide at companies like **Intel, Swatch, NEC, Indian Airlines, Hyundai, ICICI and Sunkist Growers**. It is ranked among the Top 100 software companies in surveys by trade publications like *Manufacturing Systems, Computers Today, Dataquest*, and *START*

For more information about this company visit their homesite at www.ramco.com

[Back To The Top](#)

Ramco Sample Test Paper

[Home](#)

[Back To Ramco Page](#)

Directions: Each of the following question has a question and two statements labelled as (i) and (ii). Use the data/information given in (i) and (ii) to decide whether the data are sufficient to answer the question record your answer as

- A) If you can get the answer from (1)alone but not from (2)
- B) If you can get the answer from (2)alone but not from (1)
- C) If can get the answer from (1)and (2)together ,although neither statement by itself suffice
- D) If statement (1)alone suffices and statement (2) alone also suffice.
- E) If can't get the answer from statements (1) and (2) together and you need more data.

Q1)What will be the population of city X in 1991?

- 1) Population of the city has 55% annual growth rate
- 2) in 1991,the population of city X was 8 million

Ans:C

Q2) Was it Rani's birthday yesterday?

- 1)Lata spends Rs.100 on Rani's birthday
- 2)Lata spent Rs.100 yesterday

Ans: E

Q3)Is $3*5$ or is $4*6$ greater ?

- 1) $a*b = b*a$
- 2) $a*b$ is the remainder of $ab\%(a+b)$

Ans:B

Q4)Will the graph X-Y pass through the origin?

- 1) x proportional to the Y
- 2)increment in y per units rise of x is fixed.

Ans:E

Q5) What was the value of the machine 2 years ago?

- 1) the deprecation of the value of the machine per year is 10%
- 2)present value of the machine is rs 8000/

Ans:C

Q6) What will be the area of a square that can be inscribed in a circle?

- 1) Radius of the circle is T
- 2) Length of a diagonal of the square is 2r

Ans:D

Q7) Can it be concluded that the port made more profit in 1988 than in 1987

- 1) 1987

Total tonnage handled by the port 10 million tonnes	Expenditure made by the port to handle one tonne of cargo Rs.20/-
---	--

- 2) 1988

Total tonnage handled by the port 12.5 million tonnes	Expenditure made by the port to handle one tonne of cargo Rs 25/-
---	--

Ans: E

Q8) There are two figures viz., a circle and a square. Which having greater area?

- 1) Perimeter of the circle is the same as the perimeter of the square.
- 2) Eleven times the radius is equal to seven times the length of one side of the square.

Ans: D

Q9) A candidate who was found to be under weightin medical test had been selected provisionally subject to his attainment of 60Kg weight within one year. What should be the percentage increase of his weightso that selection is confirmed after one year.

- 1) Weight (Kg)=16+8 Height (ft) is standard equation for the Indian population. The candidates height is 5.5
 2) His present weight is 55Kg.

Ans: D

Q10) Is angle $\mu=90$

- 1) $\sin^2(\mu)+\cos^2(\mu)=1$
 2) $\sin^2(\mu)-\cos^2(\mu)=1$

Ans: E

Q11) What will be the average age of workers of an Institution after two years?

- 1) Present average age is 35 years
 2) There are total 20 workers in the Institution

Ans: A

Q12) Can it be concluded that firestry is getting increasing importance in India? (Disregarding the change in money value)

1)

Name of the plan	Expenditure on Forest (Crores of rupees)
First five year plan	10
Second five year plan	19

2)

Name of the plan	Expenditure on Forest (Crores of rupees)
First five year plan	46
Second five year plan	92.5

Ans: E

Q13) Is $AB > AM$ (A Triangle is given)

- 1) $AB < AC$
 2) M is any point other than B and C on BC

Ans: E

Q14) Is $X^2 + Y^2 < X + Y$?

- 1) $0 < X < 1$
- 2) $0 < Y < 1$ and $X \neq Y$ (X not equal to Y)

Ans: C

Q15) Can it be concluded that angle ABO = angle ODC

- 1) ABCD is a Parallelogram and O is the point of intersection of the diagonals.
- 2) Angle DOC = 75deg. and angle DAO = 35deg.

Ans: A

Q16) What is the value of $x + y$?

- 1) $2y = x + 6$
- 2) $5x = 10y - 30$

Ans: E

Q17) How many students are there in the class?

- 1) 30 students play foot ball and 40 play cricket .
- 2) Each student plays either foot ball or cricket or both.

Ans: E

Q18) What is the value of $a:b$?

- 1) $a = x + 10\% \text{ of } x$
- 2) $b = a + 10\% \text{ of } a$

Ans: B

Q19) What is the maximum value of the expression $5 + 8x - 8x^2$?

- 1) x is real
- 2) x is not positive

Ans: C

Q20) What will be the value of the greatest angle of the triangle ABC?

- 1) Angles of the triangle are in the ration 2:5:3
- 2) The side opposite to the greatest angle is the longest side.

Ans: A

Q21) What is the range of values of x?

- 1) $(x-2) / (2x+5) < 1/3$
- 2) $2x/3 + 17/3 > 3x - 20$

Ans: D

Q22) Of the two which one is the greater -- $-3/x$, $-3/y$?

- 1) $x, y > 0$
- 2) $x < y$

Ans: C

Q23) What percentage of the candidates passed both in science and mathematics?

- 1) 52 percent of the candidates failed in science
- 2) 42% of the candidates failed in mathematics

Ans: C

Q24) How much pure H_2SO_4 (Hydro Sulphuric Acid) should be added to bring down the percentage of impurity to 5%?

- 1). 50 liters of pure H_2SO_4 was diluted
- 2). dilution was to the extent of 20%

Ans:C

Q25) What is the cost of building when architects feeses was 70,000

1. Architect gets 10% for the first Rs. 50000 of the cost of building
2. Architect gets 3% on the cost of the building over 50000

Ans:C

Q26) What is the value of BC?(here one triangle figure is there)

- 1). $AP=4$
- 2). $PQ=5$

Ans: E

Q27) What is the area of the shaded portion (assume AB, CD are arcs of two circles with centre at O.)Here one arc figure is there

- 1). $CA=20m$
- 2). $CB=5m$

Ans:C

Q28) What is the area of the greatest circle that can be cut from rectangular paper

- 1). length of the paper is 30cm
- 2). Width of the paper is 21cm

Ans:B

Q29) Y is what percentage of X?

- 1). $0.3x=Y$
- 2). $3x-10y=0$

Ans:D

Q30) What is the area of the trapezium abcd where ab is 5cm

1. $BC=7CM$
2. $AB+CD= 16CM$

Directions :- Each sentence below has one or two blanks.Choose the word from the set of words for each blank that best fits the meaning of the sentence as a whole.

Q31) The air was bitter cold, the temperature well below the freezing point , yet they found themselves ----- freely as they clambered up the steep northern slope

Ans: disporting

Q32) We were taken when we heard of his defection , never having suspected that he was anything but loyal. So capable had been his ---- or and devotion to cease

Ans: presentiment

Q33) War and peace are mutually ----- states of being and war to preserve peace is not a paradox . It is a -----

Ans: incompatible -- contradiction

Q34) Although the injury appeared -----, the examination by the ophthomologist revealed that he would need immediate surgery to save his sight.

Ans: superficial

Q35 to Q40 - On similar pattern as above.

Antonyms

Q41. corroborative ---- refutable

Q42. obnoxious ---- harmless

Q43. sanction ---- hinder

Q44. empirical ---- experimental

Q45. aborigine ---- emigrant

Directions for questions 56- 60 . Questions 56 -60 are based on the following information:

A port has four berths W,V,X,Y. Of these two are general cargo berth, one is a fertiliser berth and one is for liquid cargo, When vessel A arrived it was berthed at berth V but vessel B which along with A had to wait prior to berthing as vessel C was working in berth Y and vessel D was working in berth W .Vessel E came to unload fertiliser and did not have to wait. All are specilised berths i.e. general cargo vessel has to work only in a general cargo berth. So is true for fertiliser vessel and liquid cargo vessel.

Q56. The vessel E should be allotted to the berth.

Ans: X

Q57. Which of the following berth can accept a vessel carrying liquid cargo--W, V, X, Y

Ans: V

Q58. Which of the following is not a general cargo vessel--A ,B, C, D, E

Ans:A

Q59. Total number of general cargo vessels mentioned in the above description is

Ans:3

Q60. Whcih of the following allotments is possible

Ans: B to W

[Back to top](#)

Ramco Sample C Test Paper

[Home](#)[Back To Ramco Page](#)

1) Find the output for the following C program

```
main()
{
char *p1="Name";
char *p2;
p2=(char *)malloc(20);
while(*p2++=*p1++);
printf("%s\n",p2);
}
```

Ans. An empty string

2) Find the output for the following C program

```
main()
{
int x=20,y=35;
x = y++ + x++;
y = ++y + ++x;
printf("%d %d\n",x,y);
}
```

Ans. 57 94

3) Find the output for the following C program

```
main()
{
int x=5;
printf("%d %d %d\n",x,x<<2,x>>2);
}
```

Ans. 5 20 1

4) Find the output for the following C program

```
#define swap1(a,b) a=a+b;b=a-b;a=a-b;
main()
{
int x=5,y=10;
swap1(x,y);
printf("%d %d\n",x,y);
swap2(x,y);
printf("%d %d\n",x,y);
}
int swap2(int a,int b)
{
int temp;
temp=a;
b=a;
a=temp;
return;
}
```

Ans. 10 5

5) Find the output for the following C program

```
main()
{
char *ptr = "Ramco Systems";
(*ptr)++;
printf("%s\n",ptr);
ptr++;
printf("%s\n",ptr);
}
```

Ans. Samco Systems

6) Find the output for the following C program

```
#include<stdio.h>
```

```
main()
{
char s1[]="Ramco";
char s2[]="Systems";
s1=s2;
printf("%s",s1);
}
```

Ans. Compilation error giving it cannot be an modifiable 'lvalue'

7) Find the output for the following C program

```
#include<stdio.h>
main()
{
char *p1;
char *p2;
p1=(char *) malloc(25);
p2=(char *) malloc(25);
strcpy(p1,"Ramco");
strcpy(p2,"Systems");
strcat(p1,p2);
printf("%s",p1);
}
```

Ans. RamcoSystems

8) Find the output for the following C program given that [1]. The following variable is available in file1.c
static int average_float;

Ans. All the functions in the file1.c can access the variable

9) Find the output for the following C program

```
# define TRUE 0
some code
while(TRUE)
{
```

```
some code
}
```

Ans. This won't go into the loop as TRUE is defined as 0

10) Find the output for the following C program

```
main()
{
int x=10;
x++;
change_value(x);
x++;
Modify_value();
printf("First output: %d\n",x);
}
x++;
change_value(x);
printf("Second Output : %d\n",x);
Modify_value(x);
printf("Third Output : %d\n",x);
}
Modify_value()
{
return (x+=10);
}
change_value()
{
return(x+=1);
}
```

Ans. 12 1 1

11) Find the output for the following C program

```
main()
{
int x=10,y=15;
x=x++;
y=++y;
printf("%d %d\n",x,y);
}
```

}

Ans. 11 16

12) Find the output for the following C program

```
main()
{
int a=0;
if(a=0) printf("Ramco Systems\n");
printf("Ramco Systems\n");
}
```

Ans. Only one time "Ramco Systems" will be printed

13) Find the output for the following C program

```
#include<stdio.h>
int SumElement(int *,int);
void main(void)
{
int x[10];
int i=10;
for(;i;)
{
i--;
*(x+i)=i;
}
printf("%d",SumElement(x,10));
}
int SumElement(int array[],int size)
{
int i=0;
float sum=0;
for(;i<size;i++)
sum+=array[i];
return sum;
}
```

Q14) Find the output for the following C program

```
#include<stdio.h>
void main(void);
int printf(const char*,...);
void main(void)
{
int i=100,j=10,k=20;
-- int sum;
float ave;
char myformat[]="ave=%.2f";
sum=i+j+k;
ave=sum/3.0;
printf(myformat,ave);
}
```

Q15) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
int a[10];
printf("%d",((a+9) + (a+1)));
}
```

Q16) Find the output for the following C program

```
#include<stdio.h>
void main(void)
{
struct s{
int x;
float y;
}s1={25,45.00};
union u{
int x;
float y;
} u1;
u1=(union u)s1;
printf("%d and %f",u1.x,u1.y);
}
```


Q17) Find the output for the following C program

```
#include<stdio.h>
void main(void)
{
    unsigned int c;
    unsigned x=0x3;
    scanf("%u",&c);
    switch(c&x)
    {
    case 3: printf("Hello!\t");
    case 2: printf("Welcome\t");
    case 1: printf("To All\t");
    default:printf("\n");
    }
}
```

Q18) Find the output for the following C program

```
#include<stdio.h>
int fn(void);
void print(int,int(*)());
int i=10;
void main(void)
{
    int i=20;
    print(i,fn);
}
void print(int i,int (*fn1)())
{
    printf("%d\n",(*fn1)());
}
int fn(void)
{
    return(i-=5);
}
```

Q19) Find the output for the following C program

```
#include<stdio.h>
```

```

void main(void);
{
char numbers[5][6]={ "Zero","One","Two","Three","Four" };
printf("%s is %c",&numbers[4][0],numbers[0][0]);
}

```

Q20) Find the output for the following C program

```

int bags[5]={ 20,5,20,3,20 };
void main(void)
{
int pos=5,*next();
*next()=pos;
printf("%d %d %d",pos,*next(),bags[0]);
}
int *next()
{
int i;
for(i=0;i<5;i++)
if (bags[i]==20)
return(bags+i);
printf("Error!");
exit(0);
}

```

Q21) Find the output for the following C program

```

#include<stdio.h>
void main(void)
{
int y,z;
int x=y=z=10;
int f=x;
float ans=0.0;
f *=x*y;
ans=x/3.0+y/3;
printf("%d %.2f",f,ans);
}

```

Q22) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
double dbl=20.4530,d=4.5710,dblvar3;
double dbln(void);
dblvar3=dbln();
printf("%.2f\t%.2f\t%.2f\n",dbl,d,dblvar3);
}
double dbln(void)
{
double dblvar3;
dbl=dblvar3=4.5;
return(dbl+d+dblvar3);
}
```

Q23) Find the output for the following C program

```
#include<stdio.h>
static int i=5;
void main(void)
{
int sum=0;
do
{
sum+=(1/i);
}while(0<i--);
}
```

Q24) Find the output for the following C program

```
#include<stdio.h>
void main(void)
{
int oldvar=25,newvar=-25;
int swap(int,int);
swap(oldvar,newvar);
printf("Numbers are %d\t%d",newvar,oldvar);
}
int swap(int oldval,int newval)
{
```

```
int tempval=oldval;
oldval=newval;
newval=tempval;
}
```

Q25) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
int i=100,j=20;
i+=j;
i*=j;
printf("%d\t%d\n",i,j);
}
```

Q26) Find the output for the following C program

```
#include<stdio.h>
void main(void);
int newval(int);
void main(void)
{
int ia[]={ 12,24,45,0};
int i;
int sum=0;
for(i=0;ia[i];i++)
{
sum+=newval(ia[i]);
}
printf("Sum= %d",sum);
}
int newval(int x)
{
static int div=1;
return(x/div++);
}
```

Q27) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
int var1,var2,var3,minmax;
var1=5;
var2=5;
var3=6;
minmax=(var1>var2)?(var1>var3)?var1:var3:(var2>var3)?var2:var3;
printf("%d\n",minmax);
```

Q28) Find the output for the following C program

```
#include<stdio.h>
void main(void);
{
void pa(int *a,int n);
int arr[5]={5,4,3,2,1};
pa(arr,5);
}
void pa(int *a,int n)
{
int i;
for(i=0;i<n;i++)
printf("%d\n",*(a++)+i);
}
```

Q29) Find the output for the following C program

```
#include<stdio.h>
void main(void);
void print(void);
{
print();
}
void f1(void)
{
printf("\nf1():");
}
```

Q30) Find the output for the following C program

```
#include "6.c"
void print(void)
{
extern void f1(void);
f1();
}
static void f1(void)
{
printf("\n static f1().");
}
```

Q31) Find the output for the following C program

```
#include<stdio.h>
void main(void);
static int i=50;
int print(int i);
void main(void)
{
static int i=100;
while(print(i))
{
printf("%d\n",i);
i--;
}
}
int print(int x)
{
static int i=2;
return(i--);
}
```

Q32) Find the output for the following C program

```
#include<stdio.h>
void main(void);
typedef struct NType
{
int i;
char c;
```

```
long x;
} NewType;
void main(void)
{
NewType *c;
c=(NewType *)malloc(sizeof(NewType));
c->i=100;
c->c='C';
(*c).x=100L;
printf("(%d,%c,%4Ld)",c->i,c->c,c->x);
}
```

Q33) Find the output for the following C program

```
#include<stdio.h>
void main(void);
const int k=100;
void main(void)
{
int a[100];
int sum=0;
for(k=0;k<100;k++)
*(a+k)=k;
sum+=a[--k];
printf("%d",sum);
}
```

[Back to top](#)

[Sample Paper](#)[Interview](#)[Profile of the company](#)

• Written Test

The Satyam paper provided here is a two year old paper. The pattern could have changed by now. We will try to get the latest papers as soon as possible. The paper is primarily divided into 2 sections:

Section #1

This section tests a candidate's **logical** and **analytical ability** along with the **vocabulary**. The questions asked in this section are based on the **CAT pattern**.

For the *quantitative part*, it is **advisable** to solve **speed** and **distance**, **pipes** and **cisterns** and **time** and **work problems** from **R.S. Aggarwal's Mathematics for MBA** or any other management entrance coaching material.

Other references: Barron's **GMAT** preparation guide.

Section#2

This is the **technical section**. Along with the candidate's grasp on the subject, the section also tests the **general awareness** of the candidate in his/her **technical field**.

You may also be asked to write **basic programs** like finding the **factorial** of a number, **squares** of n natural numbers, *etc.*

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The interview consists of two stages : **Technical and HR** .In the technical interview candidates

can be asked questions on:

- 1.Operating Sytems
- 2.Data Structures.
3. C.
- 4.DBMS

(for computer students)

- 1.Microprocessors architecture of 8085.
- 2.Digital Circuits and Logic Design.
- 3.Basic Electronics.
- 4.Communications(questions pertaining to AM,FM,etc.)
- 5.Computer Networks.

(for electronics students)

For further details and tips refer to our [Interview section](#)..

[Back To The Top](#)

• Profile

Satyam, a **SEI-CMM Level 5 company**, offers a range of expertise in the areas of Information Technology: Software Development Services, Systems Integration, ERP Solutions, Product Development, Internet access & hosting services, Electronic Commerce and Consulting. **Satyam has nearly 6,000 IT professionals**, who operate out of its **state-of-the-art software development centers located in India, the USA, Japan, Singapore and the UK**. These Centers work as an extended enterprise (IT partner) for over 150 Fortune 500 and multinational clients worldwide

Satyam, a multifaceted, totally integrated IT solutions provider is engaged in application development and maintenance, systems integration, datamarts, conversion and migration, Euro currency and engineering services (CAD/CAM/CAE).

It specializes in customized IT solutions for industries in the areas of **Manufacturing, Financial services, Insurance, Transportation, Telecom, Healthcare and Power**. The **company also offers Network and network-enabled services in India**. It provides Internet access & hosting services, Intranet, e-mail, EDI, store & forward, and online information services.

For more information about this company visit their homesite at www.satyam.com

[Back To The Top](#)

Satyam Sample Test Paper

[Home](#)

[Back To Satyam Page](#)

PAPER 1--GENERAL APTITUDE

Directions:Each question given below consists of a word, followed by four words or phrases. Choose the lettered word or phrase that is most nearly opposite in meaning to the word in the question.

ANTONYMS

1. Disregarded

- (a) heed
- (b) hopeful
- (c) evade
- (d) dense

Ans. (a)

2. Obviate

- (a) becloud
- (b) necessitate
- (c) rationalize
- (d) execute

Ans. (b)

3. Superficial

- (a) profound
- (b) exaggerated
- (c) subjective
- (d) spirited

Ans. (a)

4. Abide

- (a) retract an offer
- (b) refuse to endure
- (c) shield from harm
- (d) exonerate

Ans. (b)

5. Acerbity

- (a) noteworthiness
- (b) hypocrisy
- (c) mildness of temperament
- (d) lack of anxiety

Ans. (c)

Directions: Each question or group of questions is based on a passage or set of conditions. For each question, select the best answer choice given.

Questions 6-9

In a certain society, there are two marriage groups, Red and Brown. No marriage is permitted within a group. On marriage, males become part of their wife's group: women remain in their own group. Children belong to the same group as their parents. Widowers and divorced males revert to the group of their birth. Marriage to more than one person at the same time and marriage to a direct descendant are forbidden.

6. A Brown female could have had

- I. a grandfather born Red
- II. a grandmother born Red
- III. two grandfathers born Brown

- (a) I only
- (b) II only
- (c) I and II only
- (d) II and III only
- (e) I,II and III

Ans. (c)

7. A male born into the Brown group may have

- (a) an uncle in either group
- (b) a Brown daughter
- (c) a Brown son
- (d) a son-in-law born into the Red group
- (e) a daughter-in-law in the Red group

Ans. (a)

8. Which of the following is not permitted under the rules stated?

- (a) A Brown male marrying his father's sister
- (b) A Red female marrying her mother's brother
- (c) A man born Red, who is now a widower, marrying his brother's widow
- (d) A widower marrying his wife's sister
- (e) A widow marrying her divorced daughter's ex-husband

Ans. (b)

9. If widowers and divorced males retained the group they had upon marrying, which of the following would have been permissible?(Assume no previous marriages occurred)

- (a) A woman marrying her dead sister's husband
- (b) A woman marrying her divorced daughter's ex-husband.
- (c) A widower marrying his brother's daughter
- (d) A woman marrying her mother's brother, who is a widower
- (e) A divorced male marrying his ex-wife's divorced sister

Ans. (d)

Questions 10-13

Tom wishes to enroll in Latin AA, Sanskrit A, Armenian Literature 221, and Celtic Literature 701. Latin AA meets five days a week, either from 9 to 11 A.M or from 2 to 4 P.M. Sanskrit A meets either Tuesday and Thursday from 12 noon to 3 P.M., or Monday, Wednesday, and

Friday

from 10 A.M to 12 noon.

Armenian Literature 221 meets either Monday, Wednesday, and Friday from 12:30 to 2 P.M., or Tuesday and Thursday

from 10:30 A.M to 12:30 P.M

Celtic Literature 701 meets by arrangement with the instructor, the only requirement being that it meet for one four-hour session or two two-hour sessions per week, between 9A.M and 4 P.M from Monday to Friday, beginning on the hour.

10. Which combination is impossible for Tom?

- (a) Latin in the morning, Sanskrit on Tuesday and Thursday, and Armenian Literature on Monday, Wednesday, Friday
- (b) Latin in the afternoon and Sanskrit and Armenian Literature on Monday, Wednesday, and Friday.
- (c) Latin in the afternoon, Sanskrit on Monday, Wednesday, and Friday, and Armenian Literature on Tuesday and Thursday
- (d) Latin in the morning and Sanskrit and Armenian Literature on Monday, Wednesday, and Friday
- (e) Latin in the afternoon, Armenian Literature on Monday, Wednesday and Friday, and Celtic Literature on Tuesday

Ans. (d)

11. Which of the following gives the greatest number of alternatives for scheduling Celtic Literature, assuming that all other courses

- (a) Latin in the afternoon and Armenian Literature Monday, Wednesday and Friday
- (b) Sanskrit on Tuesday and Thursday and Armenian Literature on Monday, Wednesday and Friday
- (c) Latin in the afternoon and Armenian Literature Tuesday and Thursday
- (d) Latin in the morning and Sanskrit on Tuesday and Thursday
- (e) Sanskrit on Monday, Wednesday, and Friday. and Armenian Literature on Tuesday and Thursday

Ans. (a)

12. If the Celtic instructor insists on holding at least one session on Friday, in which of the following can Tom enroll?

- (I) Armenian Literature on Monday, Wednesday, and Friday
- (II) Sanskrit on Monday, Wednesday, and Friday

- (a) I only
- (b) II only

- (c) both I and II
- (d) I or II but not both
- (e) neither I nor II

Ans. (d)

13. Which of the following additional courses, meeting as indicated, can Tom take?

- (a) Maths--Monday, Wednesday, and Friday from 10A.M to 12 noon
- (b) French--Monday, Wednesday, and Friday from 11A.M to 12:30 P.M
- (c) English--Tuesday and Thursday from 2 to 4 P.M
- (d) Japanese--Tuesday and Thursday from 1 to 3 P.M
- (e) Old Norse-Icelandic--Monday only from 12 to 3 P.M

Ans. (b)

Questions 14-18

- (1) Ashland is north of East Liverpool and west of Coshocton
- (2) Bowling Green is north of Ashland and west of Fredericktown
- (3) Dover is south and east of Ashland
- (4) East Liverpool is north of Fredricktown and east of Dover
- (5) Fredricktown is north of Dover and west of Ashland
- (6) Coshocton is south of Fredricktown and west of Dover

14. Which of the towns mentioned is furthest to the northwest ?

- (a) Ashland
- (b) Bowling Green
- (c) Coshocton
- (d) East Liverpool
- (e) Fredericktown

Ans. (b)

15. Which of the following must be both north and east of Fredricktown?

- (I) Ashland

- (II) Coshocton
- (III) East Liverpool

- (a) I only
- (b) II only
- (c) III only
- (d) I and II
- (e) I and III

Ans. (e)

16. Which of the following towns must be situated both south and west of at least one other town?

- (a) Ashland only
- (b) Ashland and Fredricktown
- (c) Dover and Fredricktown
- (d) Dover,Coshocton and Fredricktown
- (e) Dover,Coshocton and East Liverpool

Ans. (d)

17. Which of the following statements, if true, would make the information in the numbered statements more specific?

- (a) Coshocton is north of Dover
- (b) East Liverpool is north of Dover
- (c) Ashland is east of Bowling Green
- (d) Coshocton is east of Fredericktown
- (e) Bowling Green is north of Fredericktown

Ans. (a)

18. Which of the numbered statements gives information that can be deduced from one or more of the other statement?

- (a) (1)
- (b) (2)
- (c) (3)
- (d) (4)

(e) (6)

Ans. (c)

Questions 19-22

Spelunkers International offers exploring tours in eight caves: Abbott, Benny, Caesar, Dangerfield, Ewell, Fields, Guinness, and Hope

- (1) Class 1 spelunkers may not attempt cave Ewell, Fields or Hope
- (2) Class 2 spelunkers may not attempt Hope
- (3) Class 3 spelunkers may attempt any cave
- (4) Cave Caesar may be attempted only by spelunkers who have previously explored cave Benny
- (5) Cave Fields may be attempted only by spelunkers who have previously explored cave Ewell
- (6) Only two of caves Benny, Caesar, Ewell, Fields, and Hope may be attempted by any explorer in a single tour

19. A class 2 spelunker who has previously explored cave Ewell may be restricted in choosing a tour by which rule(s)?

- (I) Rule(4)
- (II) Rule(5)
- (III) Rule(6)

- (a) I only
- (b) II only
- (c) I and III only
- (d) II and III only
- (e) I, II and III

Ans. (c)

20. In how many different ways may a class 1 spelunker who has never explored any of the eightcaves before set up a tour of three caves, if she wishes to explore caves Abbott and Caesar?

- (a) 2
- (b) 3
- (c) 4
- (d) 5
- (e) 6

Ans. (b)

21. What is the maximum number of caves that a class 3 spelunker who has previously explored only cave Benny may include in a single tour?

- (a) 4
- (b) 5
- (c) 6
- (d) 7
- (e) 8

Ans. (b)

22. If $x + y = 3$ and $y/x = 2$ then $y = ?$

- (a) 0
- (b) $1/2$
- (c) 1
- (d) $3/2$
- (e) 2

Ans. (e)

23. How many squares with sides $1/2$ inch long are needed to cover a rectangle that is 4 ft long and 6 ft wide

- (a) 24
- (b) 96
- (c) 3456
- (d) 13824
- (e) 14266

24. If $a = \frac{2}{3}b$, $b = \frac{2}{3}c$, and $c = \frac{2}{3}d$ what part of d is b ?

- (a) $\frac{8}{27}$
- (b) $\frac{4}{9}$
- (c) $\frac{2}{3}$

- (d) 75%
- (e) $\frac{4}{3}$

Ans. (b)

25. Successive discounts of 20% and 15% are equal to a single discount of

- (a) 30%
- (b) 32%
- (c) 34%
- (d) 35%
- (e) 36

Ans. (b)

26. The petrol tank of an automobile can hold g liters. If a liters was removed when the tank was full, what part of the full tank was removed?

- (a) $g-a$
- (b) g/a
- (c) a/g
- (d) $(g-a)/a$
- (e) $(g-a)/g$

Ans. (c)

27. If $x/y=4$ and y is not '0' what % of x is $2x-y$

- (a) 150%
- (b) 175%
- (c) 200%
- (d) 250%

Ans. (b)

28. If $2x-y=4$ then $6x-3y=?$

- (a) 15
- (b) 12

- (c)18
- (d)10

Ans. (b)

29.If $x=y=2z$ and $xyz=256$ then what is the value of x ?

- (a)12
- (b)8
- (c)16
- (d)6

Ans. (b)

30. $(1/10)^{18} - (1/10)^{20} = ?$

- (a) $99/10^{20}$
- (b) $99/10$
- (c) 0.9
- (d) none of these

Ans. (a)

31. Pipe A can fill in 20 minutes and Pipe B in 30 mins and Pipe C can empty the same in 40 mins.If all of them work together, find the time taken to fill the tank

- (a) $17 \frac{1}{7}$ mins
- (b) 20 mins
- (c) 8 mins
- (d) none of these

Ans. (a)

32. Thirty men take 20 days to complete a job working 9 hours a day.How many hour a day should 40 men work to complete the job?

- (a) 8 hrs
- (b) $7 \frac{1}{2}$ hrs
- (c) 7 hrs

(d) 9 hrs

Ans. (b)

33. Find the smallest number in a GP whose sum is 38 and product 1728

- (a) 12
- (b) 20
- (c) 8
- (d) none of these

Ans. (c)

34. A boat travels 20 kms upstream in 6 hrs and 18 kms downstream in 4 hrs. Find the speed of the boat in still water and the speed of the water current?

- (a) $1/2$ kmph
- (b) $7/12$ kmph
- (c) 5 kmph
- (d) none of these

Ans. (b)

35. A goat is tied to one corner of a square plot of side 12m by a rope 7m long. Find the area it can graze?

- (a) 38.5 sq.m
- (b) 155 sq.m
- (c) 144 sq.m
- (d) 19.25 sq.m

Ans. (a)

SOME QUESTIONS WHEREIN TWO STATEMENTS ARE GIVEN ARE ALSO THERE WHERE YOU HAVE TO TELL WHICH STATEMENT IS CORRECT

SOME QUESTIONS ALSO APPEARED FROM THE BARRON'S GMAT GUIDE.

PAGE NO. 439 PASSAGE AND QUESTIONS 1 TO 9

PAGE NO. 440-441

PAGE 442 PASSAGE 2

ALSO REFER TO BARRON'S GRE BOOK FOR ADDITIONAL ANALYTICAL QUESTIONS.

PAPER 2--GENERAL AWARENESS

1. Who is the father of computers
2. Expand HTML,DMA,FAT,LAN,WAN,FDDetc
3. Which was intel's first microprocessor
4. Convert 1024 (in decimal) to octa and hexadecimal form
5. First microprocessor was
 - (a) 8085
 - (b) 8088
 - (c) 8086
 - (d) 80487
6. Give the name of a processor produced by mortorola?
7. What is the full form of WindowsNT ?
8. What is the difference between 8087 and 8086

BESIDES THIS QUESTIONS WERE ALSO BASED ON IBM PC CLONES, BASIC QUESTIONS ON GUI
SIMPLE PROGRAMS LIKE FINDING FACTORIALS, LARGEST OF THREE NUMBERS ETC
HAVE ALSO BEEN ASKED IN THE PAST.

Siemens Information Systems Limited

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test consists of **50 questions divided into 6 sections to be completed in 40 minutes**.The questions are technical based ,you can expect to be tested on **DBMS, C++, C, Unix, Motif, x-windows, ms-windows**.The test is a **multiple based** one and is not tough.The questions can be answered easily in 40 minutes provided you have some knowledge about the subjects.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The test is followed by a Technical and a HR interview.The technical interview is highly specialised and covers almost all subjects you have done in your curriculum. However one is required to name his/her favorite subject on which most of the interview is focussed.For Computer Engineers C,Operating Systems,DBMS,Microprocessors are mostly focussed upon.Electronics Engineers are grilled upon DCLD,Microprocessors and Communications.For details on the frequently asked questions please refer to our [Interview section](#).

The HR interview which follows the technical interview is very general.In most cases questions regarding the company are asked. For details on the other frequently asked questions please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

Siemens Information Systems Limited (SISL) **is a subsidiary of Siemens** - the foremost electrical and electronics company in India.

Siemens today is the acknowledged leader and the pioneering spirit in areas as diverse as **industrial automation, medical engineering, power generation, telecommunications and railway signalling**. SISL has the benefit of its links with Siemens Business Services, Europe's undisputed leader in information technology.

The main areas of SISL's expertise lies in offering hardware independent software solutions and high-end consultancy to both Indian and global markets.

SISL has over **900 professionals working** on various development projects and product development worldwide, as software specialists and application consultants

The company has its corporate office in **Mumbai** with **branches in Gurgaon, Bangalore, Calcutta, Chennai, Pune.**

For more information about this company visit their homesite at www.sislindia.com

[Back To The Top](#)

Siemens Information Systems

Sample Test

[Home](#)

[Back To Siemens Info Page](#)

1. Which of following operator can't be overloaded.

- a) ==
- b) ++
- c) ?!
- d) <=

2. For the following C program

```
#include<iostream.h>
main()
{printf("Hello World");}
```

The program prints Hello World without changing main() ,the output should be

intialisation
Hello World
Desruct

The changes should be

- a) IOstream operator<<(iostream os, char*s)
os<<'intialisation'<<(Hello World)<<Destruct
- b)
- c)
- d) none of the above

3. CDPATH shell variable is in(c-shell)

4. The term stickily bit is related to

- a) Kernel
- b) Undeletable file
- c) Both (a) and (b)
- d) None

5. Semaphore variable is different from ordinary variable by

6. For the following C program:

```
swap(int x,y)
{ int temp;
temp=x;
x=y;
y=temp;}
```

```
main()
{int x=2;y=3;
swap(x,y);}
```

After calling swap, what are the values x & y?

7. Static variable will be visible in

- a) Function. in which they are defined
- b) Module in which they are defined
- c) All the program
- d) None

8. Unix system is

- a) Multi processing
- b) Multi processing, multiuser
- c) Multi processing, multiuser, multitasking
- d) Multiuser, multitasking

9. X.25 protocol encapsulates the follwing layers

- a) Network

- b) Datalink
- c) Physical
- d) All of the above
- e) None of the above

10. TCP/IP can work on

- a) Ethernet
- b) Tokenring
- c) (a) & (b)
- d) None

11. A node has the IP address 138.50.10.7 and 138.50.10.9.

But it is transmitting data from node1 to node 2only.

The reason may be

- a) A node cannot have more than one address
- b) class A should have second octet different
- c) class B should have second octed different
- d) All of the above

12. The OSI layer from bottom to top

13. For an application which exceeds 64k the memory model should be

- a) Medium
- b) Huge
- c) Large
- d) None

14. The condition required for dead lock in unix system is

15. Set-user-id is related to (in unix)

16. Bourne shell has

a) History record****other choices not given

17. Which of the following is not true about C++

- a) Code removably
- b) Encapsulation of data and code
- c) Program easy maintenance
- d) Program runs faster

18. For the following C program

```
struct base {int a,b;  
base();  
int virtual function1();}
```

```
struct derv1:base  
{int b,c,d;  
derv1()  
int virtual function1();}
```

```
struct derv2 : base  
{int a,e;  
}  
base::base()  
{a=2;b=3;  
}  
derv1::derv1()  
{b=5;  
c=10;d=11;}  
base::function1()  
{return(100);  
}  
derv1::function1()  
{  
return(200);  
}
```

```
main()  
base ba;  
derv1 d1,d2;
```

```
printf("%d %d",d1.a,d1.b)
```

Output of the program is:

- a) a=2;b=3;
- b) a=3; b=2;
- c) a=5; b=10;
- d) none

19. For the above program answer the following q's

```
main()  
base da;  
derv1 d1;  
derv2 d2;  
printf("%d %d %d",da.function1(),d1.function1(),d2.function1());
```

Output is:

- a) 100,200,200;
- b) 200,100,200;
- c) 200,200,100;
- d) None of the above

20. For the following C program

```
struct {  
int x;  
int y;  
}abc;
```

x cannot be accessed by the following

- 1)abc-->x;
- 2)abc[0]-->x;
- 3)abc.x;
- 4)(abc)-->x;

- a)1, 2, 3
- b) 2 & 3

- c) 1 & 2
- d) 1, 3, 4

21. Automatic variables are destroyed after fn. ends because

- a) Stored in swap
- b) Stored in stack and popped out after fn. returns
- c) Stored in data area
- d) Stored in disk

22. Relation between x-application and x-server (x-win)

23. What is UIL(user interface language) (x-win)

24)Which of the following is right in ms-windows

- a) Application has single qvalue system has multiple qvalue
- b) Application has multiple qvalue system has single qvalue
- c) Application has multipleqvalue system has multiple qvalue
- d) None

25. Widget in x-windows is

26. Gadget in x_windows is

27. Variable DESTDIR in make program is accessed as

- a) \$(DESTDIR)
- b) \${DESTDIR}
- c) DESTDIR

28. The keystroke mouse entrie are interpreted in ms windows as

- a) Interrupt

- b) Message
- c) Event
- d) None of the above

29. Link between program and outside world (ms -win)

- a) Device driver and hardware disk
- b) Application and device driver
- c) Application and hardware device
- d) None

30. Ms -windows is

- a) multitasking
- b) multiuser
- c) both of the above
- d) none of the above

31. Dynamic scoping is

32. After logout the process still runs in the background by giving the command

33. Which process dies out but still waits

- a) Exit
- b) Wakeup
- c) Zombie
- d) Sleep

34. In dynamic memory allocation we use

- a) Doubly linked list
- b) Circularly linked
- c) B trees
- d) L trees
- e) None

35. To find the key of search the data structure is

- a) Hash key
- b) Trees
- c) Linked lists
- d) Records

36. Which of the following is true

- a) Bridge connects dissimilar LAN and protocol insensitive
- b) Router connects dissimilar LAN and protocol insensitive
- c) Gateway connects dissimilar LAN and protocol insensitive
- d) None of the above

37. Read types of tree traversals.

38. Read about SQL/Databases

39. A DBMS table is given along with simple SQL statements. Find the output.

40. Simple programs on pointers in c

[Back to top](#)

SUN Microsystems

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

We have pretty sketchy information on the exact pattern of the SUN written test. There is a technical section which is pretty tough. Question based on C, UNIX, Computer Networks, Data Structures and Operating Systems can be expected.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The interview questions were mainly on data structures, computer architecture (very imp) , operating systems and computer networks. Please refer to the [Interview section](#). for more details.

[Back To The Top](#)

• Profile

Since its inception in **1982**, a singular vision - The Network Is The Computer(tm) - has propelled Sun Microsystems, Inc., to its position as a leading provider of **industrial-strength hardware, software and services** that power the Internet and allow companies worldwide to dot-com their businesses. With **US\$ 14.2 billion** in annual revenues, Sun can be found in more than **170 countries**. **America Online** acquires **Netscape; Sun and AOL** to accelerate the growth of e-commerce and develop next-generation Internet

devices in a historic **three-year alliance**.

Sun Microsystems, Inc. is a **worldwide provider** of **products, services and support solutions** for building and maintaining **network computing environments**. The Company sells **scalable computer systems, high-speed microprocessors and high performance software** for **operating network computing equipment and storage products**. The Company also provides support, education and professional services. The Company's products are used for many demanding commercial and technical applications in various industries including **telecommunications, manufacturing, financial services, education, retail, government, energy and healthcare**.

In **India**, Sun Microsystems has been in the market for over a decade through its business partners and has been present directly for over three years. In this period Sun servers and workstation products have had a tremendous acceptance in the market. **IDC** rates Sun as the **No. 1** vendor in India for the mid-range servers as well as Unix workstations.

The company, which has changed its baseline from 'The network is the computer' to 'We are the dot in the .com' owes most of its **70 per cent growth** over the previous year to the booming dotcom business. It has established its state-of-the-art industrial and allied facility in **Bangalore**. Sun and its partners constitute a **400-strong** team that supports an installed base of more than **15,000 systems**. Some of Sun's customers in India include **Texas Instruments, Veritas, Lucent Technologies, ICICI, VSNL, Silicon Automation Systems, Reliance Industries, IIT (Delhi, Kanpur and Kharagpur), Motorola, and Oracle**.

For more information about this company visit their homesite at www.sun.com

[Back To The Top](#)

SUN Sample Test Paper

[Home](#)

[Back To SUN Page](#)

1. For the following program.

```
struct XXX
{int a;
float b;
char *s;
}X;
```

If optimization :X not used in compiler then unused bits_____.
Give your assumption_____.

2. Give the output of the following program

```
struct XXX
{int a:6;
float b:4;
char s;
}structure;
```

size of (structure);

3. Class used for the multiple inheritance in JAVA_____

- (a) anonymous class
- (b) inner class
- (c) abstract class
- (d) none

4. XDR fixes in which part of OS1 stack.

5. LDAP is_____service protocol.

6. Given definition for a function which returns a array of pointers with argument of int*.

7. Give a function declaration with no arguments which refers a two dimensional array

8. Pick up the correct function declaration.

1. void *[] name();
2. void int[][] name();
3. void ** name();
4. none of the above.

9. Give the difference between monolithic and microlithic kernal:

- a. monolithic large
- b. microlithic used in embedded systems.
- c. none.

10. rPC coresponds to_____in OSI stack.

11. Find the no.of page faults using LRU stack.

eg.3 4 4 6 7 8 1 2

12.The inorder representation of a tree 41523 and preorder is 211513 Draw it?

13. When does a stack member will be initialised

- (a) when object is created
- (b) when object is initialised.
- (c) doesnot depend on object.
- (d) none.

14. Number of CPU in a multiprocess is contrassed by

- (a) RISC nohere of CPU

- (b) memory
- (c) both (a) and (b)
- (d) None of the above

15. Give the output of the following program

```
main()
{char *s;
s="hot java";
strcpy(s,"solarrs java")
}
```

16. Give the output of the following program

```
main()
{printf("hot java");
fork()
exit(0);
}
```

- (i). When redirected to a screen what will be printed.
- (ii). When redirected to file what will be printed.

17. Give the output of the following program

```
main()
{int ret;
ret=fork();ret=fork();ret=fork();ret=fork();
if(!ret)
printf("sun");
else
printf("solaris");
}
```

18. Give the output of the following program

```
main()
{char *p='a';
int *i=100/*p;
}
```

what will be the value of *i= 1

19. Which data structure gives efficient search

- 1 B-tree
- 2 binary tree
- 3 array
- 4 linked list

20. Find the error in the following program

```
struct point
{struct point *next;
int data;
}
x;
```

```
main()
{int i;
for(x=p;x!=0;)
x=x->next,x++;
freelist(x);
}
```

```
freelist(x)
{free(x);
return
}
```

21. Mutex and _____are similar locking mechanisms.

22. A complex question on pointers and functions.

23. SNMP and SMIP transport layer protocols for TCP/IP&OSI.

24 UNIX: difference between select and poll

[Back to top](#)

Tata Consultancy Services

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

• Written Test

Tata Consultancy Services conducts a multiple choice test. The test consists of four sections. The first section is the Verbal Section with 15 questions to be attempted in 6 minutes. The questions deal with words and their synonyms. You need a high level of vocabulary to do well in this part. The second section is a Quantitative aptitude section with 15 questions to be answered in 10 minutes. The questions deal with basic mathematics such as multiplication, percentages etc. This is the easiest among all the sections (try not to make silly mistakes). The third section is the Reading Comprehension section with 50 minutes to answer 60 questions. The fourth section is a 30 minutes Psychometric Test with 150 questions. These questions are generally simple personality based questions checking your ability to answer consistently. Usually only a Yes/No type answer is required for these questions.

The following sets of questions are available:

[Sample Test1](#) [Sample Test2](#)

Candidates clearing the test and the interview are further required to clear a paper based on C and COBOL. This paper consists of 50 questions and is MCQ format.

[Click here to see the sample C test.](#)

[Back To The Top](#)

• Interview

The test is followed by a Technical and a HR interview. The technical interview is highly specialised and covers almost all subjects you have done in your curriculum. However one is required to name his/her favorite subject on which most of the interview is focussed. For Computer Engineers C, Operating Systems, DBMS, Microprocessors are mostly focussed upon. Electronics Engineers can be grilled on DCLD, Microprocessors and Communications. For details on the frequently asked questions please refer to our [Interview section](#).

The HR interview which follows the technical interview is very general. The Hr interview is also important. Mostly questions are asked to test your temperament. You maybe asked your opinion on a variety of current affair topics. We were asked about Homosexuality, Lesbianism(the movie FIRE), Kashmir, Genome Project etc. In some cases questions regarding the company are asked. For details on the other frequently asked questions please refer to our [Interview section](#).

[Back To The Top](#)

• Profile

Tata Consultancy Services started in 1968. **Mr.F.C Kohli** who is presently the **Deputy Chairman** was entrusted with the job of steering TCS. The early days marked TCS responsibility in managing the punch card operations of Tisco. The company, which was into management consultancy from day one, soon felt the need to provide solutions to its clients as well. TCS was the first Indian company to make forays into the US market with clients ranging from **IBM, American Express, Sega** etc. TCS is presently the top software services firm in Asia.

During the **Y2K** buildup, TCS had setup a Y2K factory in Chennai as a short-term strategy. Now, with **E-business** being the buzzword, the factory is developing solutions for the dotcom industries. Today, about 90 percent of TCS' revenue comes from **consulting**, while the rest from **products**. TCS has great training facilities. In addition to training around 5 percent of the revenue is spent upon its R&D centres like the Tata Research Design and Development Centre at Pune, along with a host of other centres at Mumbai and Hyderabad.

It benchmarked its quality standing, invested heavily in software engineering practices and built intellectual property-in terms of **patents,code** and **branded products**. At the same time, it expanded its relationships with technology partners and organisations, increased **linkages with academic institutions** and incubated technologies and ideas of people within TCS and outside. TCS has already **patented 12 E-Commerce** solution product packages and has filed **six more applications** for patent licences.

Over \$25 million were spent on enhancing hardware and software infrastructure. The company now has **72 offices** worldwide. As many as seven centres were assessed at **SEI CMM Level 5** last year(3.4

mistakes in a million opportunities). These include Chennai, Mumbai, Bangalore, Calcutta, Hyderabad and Lucknow. Several business and R&D relationship with global firms like **IBM, General Electric, Unigraphics Solutions** have been made.

The present **CEO** of the company is **Mr.S.Ramadorai**. The companies strength is about **14,000**.

For more information about this company visit their homesite at www.tcs.com

[**Back To The Top**](#)

Tata Consultancy Services Sample Test#1

[Home](#)

[Back To TCS Page](#)

NOTE:EACH OF THE QUESTIONS GIVEN BELOW APPEAR AS MULTIPLE CHOICE QUESTIONS IN THE ACTUAL PAPER.

VERBAL SECTION

*Directions for questions 1-15:*Find the **synonyms** of the following words

1. Merry

Ans. Gay,Happy

2. Alienate

Ans. Estrange

3. Solicit

Ans. To request

4.Heap

Ans. To pile

5.Cargo

Ans. Freight

6.Momentary

Ans. Transient

7. Volume

Ans.Quantity

8.Veer

Ans.Diverge

9.Dispel

Ans.Dissipate

10.Admonish

Ans.Cautious

11.Meager

Ans.Scanty

12.Latitude

Ans.Scope

13.Latent

Ans.Potential

14.Covet

Ans.Crave

15.Discretion

Ans. Prudence

QUANTITATIVE SECTION

1. If two pencils cost 8 cents, then how much do 5 pencils cost?

Ans. 20 cents

2. Some work is done by two people in 24 minutes. One of them can do this work alone in 40 minutes. How much time does the second person take to do the same work ?

Ans. 60 minutes

3. A car is filled with four and half gallons of fuel for a round trip.If the amount of fuel taken while going is $\frac{1}{4}$ more than the amount taken for coming, what is the amount of fuel consumed while coming back?

Ans.2 gallons

4. The lowest temperature in the night in a city A is $\frac{1}{3}$ more than $\frac{1}{2}$ the highest during the day. Sum of the lowest temperature and the highest temperature is 100 degrees. Then what is the low temp?

Ans.40 degrees

5. Javagal, who decided to go to weekened trip should not exceed 8 hours driving in a day. The average speed of forward journey is 40 miles/hr.Due to traffic on sundays, the return journey's average speed is 30 m/h. How far he can select a picnic spot?

- a) 120 miles
- b) between 120 and 140 miles
- c) 160 miles

Ans. 120 miles

6. A salesperson by mistake multiplied a number and got the answer as 3, instead of dividing the number

by 3. What is the answer he should have actually got?

Ans. 3

7. A building with height D shadow upto G. What is the height of a neighbouring building with a shadow of C feet.

Ans. $(C \cdot D)/G$

8. A person was fined for exceeding the speed limit by 10 mph. Another person was also fined for exceeding the same speed limit by twice the same. If the second person was travelling at a speed of 35 mph, find the speed limit.

Ans. 15 mph

9. A bus started from busstand at 8.00am, and after staying for 30 minutes at a destination, it returned back to the busstand. The destination is 27 miles from the busstand. The speed of the bus is 18mph. During the return journey bus travels with 50% faster speed. At what time does it return to the busstand?

Ans. 11.00am

10. In a mixture, R is 2 parts and S is 1 part. In order to make S to 25% of the mixture, how much of R is to be added?

Ans. One part of R

11. Wind flows 160 miles in 330 min, for travelling 80 miles how much time does it require?

Ans. 2 hrs 45 mins

12. With a $\frac{4}{5}$ full tank a vehicle can travel 12 miles, how far can it travel with a $\frac{1}{3}$ full tank

Ans. 5 miles

13. There are two trees in a lawn. One grows at a rate $\frac{3}{5}$ of the other in 4 years. If the total growth of

trees is 8 ft. What is the height of the smaller tree after 2 years

Ans. 1 1/2 feet

14. Refer to the figure below. A ship started from P and moves at a speed of I miles per hour and another ship starts from L and moving with H miles per hour simultaneously. Where do the two ships meet?

||---g---||---h---||---i---||---j---||---k---||---l---||

P G H I J K L are the various stops in between denoted by || . The values g, h, i, j, k, l denote the distance between the ports.

Ans. Between I and J, closer to J

15. If A is travelling at 72 km per hour on a highway. B is travelling at a speed of 25 meters per second on a highway. What is the difference in their speeds in m/sec.

Ans. 1 m/sec

CRITICAL REASONING SECTION

The critical reasoning section consists of some passages followed by 4 to 7 questions per passage. The questions are such that they require ability to read fast and comprehend. The questions asked in this section have three choices TRUE, FALSE, CAN'T SAY. Some examples of questions are given below. Please note that these passages are not the exact passages asked. The passages used a good deal of difficult words which have been removed in this reproduction. Also the passages appearing in the actual paper are much lengthier.

Directions: Answer the questions given below the passage or statement as true, false or can't say.

PASSAGE A: My father has no brothers. He has three sisters who has two childs each.

Answer 1-5 based on the passage A

1. My grandfather has two sons .

Ans. False

2. Three of my aunts have two sons

Ans. Can't say

3. My father is only child to his father

Ans. False

4. I have six cousins from my mother side

Ans. Can't say

5. I have one uncle

Ans. Can't say(uncle can be from the mother's side as well)

PASSAGE B: Ether injected into gallablader to dissolve colestrol based gallstones. This type one day treatment is enough for gallstones not for calcium stones. This method is alternative to surgery for millions of people who are suffering from this disease.

Answer questions 6-9 based on passage B

6.Calcium stones can be cured in oneday

Ans. False

7. Hundreds of people contains calcium stones

Ans. Can't say

8. Surgery is the only treatment to calcium stones

Ans. True

9. Ether will be injected into the gallbladder to cure the cholesterol based gall stones

Ans. True

PASSAGE C: Hacking is illegal entry into another computer. This happens mostly because of lack of knowledge of computer networking. With networks one machine can access to another machine. Hacking go about without knowing that each network is accredited to use network facility.

Answer questions 10-12 based on passage B

10. Hackers never break the code of the company which they work for

Ans. Can't say

11. Hacking is the only vulnerability of the computers for the usage of the data

Ans. False

12. Hacking is done mostly due to the lack of computer knowledge

Ans. False

PASSAGE C: Alpine tunnels are closed tunnels. In the past 30 yrs not even a single accident has been recorded for there is one accident in the rail road system. Even in case of a fire accident it is possible to shift the passengers into adjacent wagons and even the live fire can be detected and extinguished within the duration of 30 min.

Answer questions 13-16 based on passage C

13. No accident can occur in the closed tunnels

Ans. True

14. Fire is allowed to live for 30 min

Ans. False

16. All the cars that travel in the tunnels will be carried by rail shuttles.

Ans. True

PASSAGE D: In the past helicopters were forced to ground or crash because of the formation of the ice on the rotors and engines. A new electronic device has been developed which can detect the water content in the atmosphere and warns the pilot if the temperature is below freezing temperature about the formation of the ice on the rotors and wings.

Answer questions 17-20 based on passage D

17. The electronic device can avoid formation of the ice on the wings

Ans. False

18. There will be the malfunction of rotor & engine because of formation of ice

Ans. True

19. The helicopters were to be crashed or grounded

Ans. True

20. There is only one device that warns about the formation of ice

Ans. True

PASSAGE E: In the survey conducted in Mumbai out of 63 newly married housewives not a single housewife felt that the husbands should take equal part in the household work as they felt they lose their power over their husbands. In spite of their careers they opt to do the kitchen work themselves after coming back to home. The wives get half as much leisure time as the husbands get at the week ends.

Answer questions 21-23 based on passage E

21. Housewives want the husbands to take part equally in the household

Ans. False

22. Wives have half as much leisure time as the husbands have

Ans. False

23. 39% of the men will work equally in the house in cleaning and washing

Ans. False

PASSAGE F: Copernicus is the intelligent. In the days of copernicus the transport and technology development was less & it took place weeks to communicate a message at that time, wherein we can send it through satellite with in no time. Even with this fast developments it has become difficult to understand each other.

Answer questions 24-27 based on passage F

24. People were not intelligent during Copernicus days

Ans. False

25. Transport facilities are very much improved in no a days

Ans. Can't say

26. Even with the fast developments of the technology we can't live happily.

Ans. Can't say

27. We can understand the people very much with the development of communication

Ans. False.

PASSAGE G:Senior managers warned the workers that because of the introduction of Japanese industry in the car market. There is the threat to the workers. They also said that there will be the reduction in the purchase of the sales of car in public. The interest rates of the car will be increased with the loss in demand.

Answer questions 28-31 based on passage G

28. Japanese workers are taking over the jobs of Indian industry.

Ans. False

29. Managers said car interests will go down after seeing the rise in interest rates.

Ans. True

30. Japanese investments are ceasing to end in the car industry.

Ans. False

31. People are very interested to buy the cars.

Ans. False

PASSAGE H:In the totalitarian days, the words have very much devalued. In the present day, they are becoming domestic that is the words will be much more devalued. In those days, the words will be very much affected in political area. But at present, the words came very cheap. We can say they come free at cost.

Answer questions 32-34 based on passage H

32. Totalitarian society words are devalued.

Ans.False

33. Totalitarians will have to come much about words

Ans.True

34. The art totalitatian society the words are used for the political speeches.

Ans. False

PASSAGE I:There should be copyright for all arts. The reele has came that all the arts has come under one copy right society,they were use the money that come from the arts for the developments . There may be a lot of money will come from the Tagore works. We have to ask the benifiters from Tagore work to help for the development of his works.

Answer questions 35-39 based on passage I

35. Tagore works are came under this copy right rule.

Ans. False

36. People are free to go to the public because of the copy right rule.

Ans.Can't say

38. People gives to theater and collect the money for development.

Ans.Can't say

39. We have ask the Tagore resedents to help for the developments of art.

Ans.Can't say

PYSCHOMETERIC TEST

You don't need to fret much about this test. This test consists of 150 questions and is just a pyshcology test which should be answered confidently and doesn't require any preparation. One must try being consistent while answering as the same questions are repeatedly asked in different forms. Also one must answer all questions. Questions are of yes, no or can't say kind.

1. Will you be interested in social activities.
2. While going upstairs do you move two steps at a time.
3. Can you make friends with people of the same sex or with opposite sex also
4. Your friends consider you as a leader in your group
5. People think that your'e serious minded.
6. There are times you feel dull without any reason.
7. You host several parties
8. When relatives come to your house do you entertain them.
9. You can work for long hours without tireness.
10. In your company you want to lead the organisation.

[Back to top](#)

Tata Consultancy Services Sample Test#2

[Home](#)

[Back To TCS Page](#)

NOTE: EACH OF THE QUESTIONS GIVEN BELOW APPEAR AS MULTIPLE CHOICE QUESTIONS IN THE ACTUAL PAPER.

VERBAL SECTION

Directions for questions 1-15: Find the **synonyms** of the following words

1. Depreciation

Ans. Deflation, Depression, Devaluation, fall, slump in value

2. Deprecate

Ans. Feel and express disapproval of

3. Incentive

Ans. Thing one encourages a person to do something

4. Echelon

Ans. Level of authority or responsibility

5. Innovation

Ans. To make changes or introduce new things

6. Intermittant

Ans. Externally stopping and then starting

7. Detrimental

Ans.Harmful

8. Aberration

Ans. Deviation

9. Conciliation

Ans.To make less angry or more friendly

10. Orthodox

Ans.Conventional or superstitious

11. Fallible

Ans.Liable to err

12. Volatile

Ans.Ever changing

13. Manifestion

Ans.Clear or obvious

14. Connotation

Ans. Suggest in addition to the fundamental meaning

15. Reciprocal

Ans. Reverse, Opposite

QUANTITATIVE SECTION

1. There are 150 weights .Some are 1 kg weights and some are 2 kg weights. The sum of the weights is 260.What is the number of 1kg weights?

Ans. 40

2. A is driving on a highway when the police fines him for overspeeding and exceeding the limit by 10 km/hr.At the same time B is fined for overspeeding by twice the amount by which A exceeded the limit.If he was driving at 35 km/hr what is the speed limit for the road?

Ans. 15 kmph

3. A moves 3 kms east from his starting point . He then travels 5 kms north. From that point he moves 8 kms to the east.How far is A from his starting point?

Ans. 13 kms

4. A car travels 12 kms with a $\frac{4}{5}$ th filled tank.How far will the car travel with $\frac{1}{3}$ filled tank?

Ans. 5 kms

5. The sum of the digits of a two digit number is 8. When 18 is added to the number, the digits are reversed. Find the number?

Ans. 35

6. The cost of one pencil, two pens and four erasers is Rs.22 while the cost of five pencils, four pens and two erasers is Rs.32.How much will three pencils, three pens and three erasers cost?

Ans. 27

7. Father's age is 5 times his son's age. 4 years back the father was 9 times older than son. Find the father's present age.

Ans. 40 years

8. What number should be added to or subtracted from each term of the ratio 17 : 24 so that it becomes equal to 1 : 2.

Ans. 10 should be subtracted

9. What is the 12th term of the series 2, 5, 8,

Ans. 35

10. If 20 men take 15 days to complete a job, in how many days can 25 men finish that work?

Ans. 12 days

11. In a fraction, if 1 is added to both the numerator and the denominator, the fraction becomes $\frac{1}{2}$. If numerator is subtracted from the denominator, the fraction becomes $\frac{3}{4}$. Find the fraction.

Ans. $\frac{3}{7}$

12. If Rs.1260 is divided between A, B and C in the ratio 2:3:4, what is C's share?

Ans. Rs. 560

13. A shopkeeper bought a watch for Rs.400 and sold it for Rs.500. What is his profit percentage?

Ans. 25%

14. What percent of 60 is 12?

Ans. 20%

15. Hansie made the following amounts in seven games of cricket in India: Rs.10, Rs.15, Rs.21, Rs.12, Rs.18, Rs.19 and Rs.17(all figures in crores of course).Find his average earnings.

Ans. Rs.16 crore

CRITICAL REASONING SECTION

This section is basically just a reading comprehension section.The critical reasoning section consists of some passages followed by 4 to 7 questions per passage.The questions are such that they require ability to read fast and comprehend.The questions asked in this section have three choices TRUE, FALSE, CAN'T SAY.Some examples of passages are given in test 1.For further practice you may go through any GRE or CAT book which will provide you with ample practice regarding these kinds of questions.

PYSCHOMETERIC TEST

This test consists of 150 questions and is just a pyshcology test which should be answered confidently and doesn't require any preparation.One must try being consistent while answering as the same questions are repeatedly asked in different forms.Also one must answer all questions.Questions are of yes or no kind.

example:

Are you sincere?

If you find a purse in the market with loads of money would you return it to the rightful owner?

While climbing up the stairs do you take two steps at a time?

Do you drink and smoke more than you think you should?

Are you the life of the party you attend?

Are you shy?

[Back to top](#)

Tata Consultancy Services C Sample Test

[Home](#)

[Back To TCS Page](#)

This test consists of 50 questions. The Set Code for this paper is D.

1. The C language terminator is

- (a) semicolon
- (b) colon
- (c) period
- (d) exclamation mark

2. What is false about the following -- A compound statement is

- (a) A set of simple statements
- (b) Demarcated on either side by curly brackets
- (c) Can be used in place of simple statement
- (d) A C function is not a compound statement.

3. What is true about the following C Functions

- (a) Need not return any value
- (b) Should always return an integer
- (c) Should always return a float
- (d) Should always return more than one value

4. Main must be written as

- (a) The first function in the program
- (b) Second function in the program
- (c) Last function in the program
- (d) Any where in the program

5. Which of the following about automatic variables within a function is correct ?

- (a) Its type must be declared before using the variable
- (b) They are local
- (c) They are not initialised to zero
- (d) They are global

6. Write one statement equivalent to the following two statements

```
x=sqr(a);  
return(x);
```

Choose from one of the alternatives

- (a) `return(sqr(a));`
- (b) `printf("sqr(a)");`
- (c) `return(a*a*a);`
- (d) `printf("%d",sqr(a));`

7. Which of the following about the C comments is incorrect ?

- (a) C comments can go over multiple lines
- (b) Comments can start anywhere in the line
- (c) A line can contain comments without any language statements
- (d) Comments can occur within comments

8. What is the value of y in the following code?

```
x=7;  
y=0;  
if(x=6) y=7;  
else y=1;
```

- (a) 7
- (b) 0
- (c) 1
- (d) 6

9. Read the function `conv()` given below

```
conv(int t){  
int u;
```

```

u=5/9 * (t-32);
return(u);
}

```

What is returned

- (a) 15
- (b) 0
- (c) 16.1
- (d) 29

10. Which of the following represents true statement either x is in the range of 10 and 50 or y is zero

- (a) $x \geq 10 \ \&\& \ x \leq 50 \ || \ y == 0$
- (b) $x < 50$
- (c) $y != 10 \ \&\& \ x \geq 50$
- (d) None of these

11. Which of the following is not an infinite loop ?

(a) `while(1){ }`

(b) `for(;;)`
`{`
`...`
`}`

(c) `x=0;`
`do{`
`/*x unaltered within the loop*/`
`.....}`
`while(x == 0);`

(d) `# define TRUE 0`
`...`
`while(TRUE){`
`....}`

12. What does the following function print?

```
func(int i)
{ if(i%2)return 0;
else return 1;}
main()
{
int =3;
i=func(i);
i=func(i);
printf("%d",i);
}
```

- (a) 3
- (b) 1
- (c) 0
- (d) 2

13. How does the C compiler interpret the following two statements

```
p=p+x;
q=q+y;
```

- (a) p=p+x;
 q=q+y
- (b) p=p+xq=q+y
- (c) p=p+xq;
 q=q+y
- (d) p=p+x/q=q+y

For questions 14,15,16,17 use the following alternatives

- a.int
- b.char
- c.string
- d.float

14. '9'

15. "1 e 02"

16. 10e05

17. 15

18. Read the following code

```
# define MAX 100
```

```
# define MIN 100
```

```
....
```

```
....
```

```
if(x>MAX)
```

```
x=1;
```

```
else if(x<MIN)
```

```
x=-1;
```

```
x=50;
```

if the initial value of x=200, what is the value after executing this code?

(a) 200

(b) 1

(c) -1

(d) 50

19. A memory of 20 bytes is allocated to a string declared as char *s
then the following two statements are executed:

```
s="Entrance"
```

```
l=strlen(s);
```

what is the value of l ?

(a)20

(b)8

(c)9

(d)21

20. Given the piece of code

```
int a[50];
```

```
int *pa;
```

```
pa=a;
```

To access the 6th element of the array which of the following is incorrect?

- (a) *(a+5)
- (b) a[5]
- (c) pa[5]
- (d) *(*pa + 5)

21. Consider the following structure:

```
struct num nam{
int no;
char name[25];
}
```

```
struct num nam n1[]={ { 12,"Fred" }, { 15,"Martin" }, { 8,"Peter" }, { 11,"Nicholas" } };
```

```
.....
```

```
.....
```

```
printf("%d%d",n1[2],no,(*(n1 + 2),no) + 1);
```

What does the above statement print?

- (a) 8,9
- (b) 9,9
- (c) 8,8
- (d) 8,unpredictable value

22. Identify the in correct expression

- (a) a=b=3=4;
- (b) a=b=c=d=0;
- (c) float a=int b=3.5;
- (d) int a; float b; a=b=3.5;

23. Regarding the scope of the variables;identify the incorrect statement:

- (a) automatic variables are automatically initialised to 0
- (b) static variables are are automatically initialised to 0
- (c) the address of a register variable is not accessible
- (d) static variables cannot be initialised with any expression

24. `cond 1?cond 2?cond 3?:exp 1:exp 2:exp 3:exp 4;`
is equivalent to which of the following?

(a) `if cond 1
exp 1;
else if cond 2
exp 2;
else if cond 3
exp 3;
else exp 4;`

(b) `if cond 1
if cond 2
if cond 3
exp 1;
else exp 2;
else exp 3;
else exp 4;`

(c) `if cond 1 && cond 2 && cond 3
exp 1 |exp 2|exp 3|exp 4;`

(d) `if cond 3
exp 1;
else if cond 2 exp 2;
else if cond 3 exp 3;
else exp 4;`

25. The operator for exponencation is

- (a) `**`
- (b) `^`
- (c) `%`
- (d) not available

26. Which of the following is invalid

- (a) `a+=b`

- (b) $a * = b$
- (c) $a > > = b$
- (d) $a * * = b$

27. What is y value of the code if input x=10

```
y=5;  
if (x==10)  
else if(x==9)  
else y=8;
```

- (a)9
- (b)8
- (c)6
- (d)7

28. What does the following code do?

```
fn(int n,int p,int r){  
static int a=p;  
switch(n){  
case 4:a+=a*r;  
case 3:a+=a*r;  
case 2:a+=a*r;  
case 1:a+=a*r;}}}
```

- (a)computes simple interest for one year
- (b)computes amount on compound interest for 1 to 4 years
- (c)computes simple interest for four year
- (d)computes compound interst for 1 year

29. a=0;
while(a<5)
printf("%d\\n",a++);
How many times does the loop occurs?

- (a)infinite
- (b)5
- (c)4
- (d)6

30. How many times does the loop iterated ?

```
for (i=0;i=10;i+=2)
printf("Hi\\n");
```

- (a) 10
- (b) 2
- (c) 5
- (d) None of these

31. What is incorrect among the following
A recursive function

- (a) calls itself
- (b) is equivalent to a loop
- (c) has a termination condition
- (d) does not have a return value at all

32. Which of the following go out of the loop if expn 2 becoming false

- (a) while(expn 1)\{...if(expn 2)continue;}
- (b) while(!expn 1)\{if(expn 2)continue;...}
- (c) do{ ..if(expn 1)continue;..}while(expn 2);
- (d) while(!expn 2)\{if(expn 1)continue;..\}

33. Consider the following program

```
main()
{unsigned int i=10;
while(i>=0){
printf("%u",i)
i--;}
}
```

How many times the loop will get executed

- (a) 10
- (b) 9
- (c) 11
- (d) infinite

34. Pick out the odd one out

- (a) malloc()
- (b) calloc()
- (c) free()
- (d) realloc()

35. Consider the following program

```
main(){  
int a[5]={ 1,3,6,7,0};  
int *b;  
b=&a[2];  
}
```

The value of b[-1] is

- (a) 1
- (b) 3
- (c) -6
- (d) none

36. # define prod(a,b)=a*b

```
main(){  
int x=2;  
int y=3;  
printf("%d",prod(x+2,y-10)); }
```

the output of the program is

- (a) 8
- (b) 6
- (c) 7
- (d) None

37. Consider the following program segment

```
int n,sum=1;  
switch(n){  
case 2:sum=sum+2;  
case 3:sum*=2;  
break;  
default:sum=0;}
```

If n=2, what is the value of sum

- (a) 0
- (b) 6
- (c) 3
- (d) None of these

38. Identify the incorrect one

- 1. if(c=1)
- 2. if(c!=3)
- 3. if(a<b) then
- 4. if(c==1)

- (a) 1 only
- (b) 1&3
- (c) 3 only
- (d) All of the above

39. The format specified for hexa decimal is

- (a) %d
- (b) %o
- (c) %x
- (d) %u

40. Find the output of the following program

```
main(){
```

```
int x=5, *p;  
p=&x  
printf("%d",++*p);  
}
```

- (a) 5
- (b) 6
- (c) 0
- (d) none of these

41. Consider the following C code

```
main(){  
int i=3,x;  
while(i>0){  
x=func(i);  
i--; }  
  
int func(int n){  
static sum=0;  
sum=sum+n;  
return(sum);} 
```

The final value of x is

- (a) 6
- (b) 8
- (c) 1
- (d) 3

43. Int *a[5] refers to

- (a) array of pointers
- (b) pointer to an array
- (c) pointer to a pointer
- (d) none of these

44. Which of the following statements is incorrect

(a) typedef struct new {
int n1;
char n2;
} DATA;

(b) typedef struct {
int n3;
char *n4;} ICE;

(c) typedef union { int n5;
float n6;} UDT;

(d) #typedef union {
int n7;
float n8;} TUDAT;

[Back to top](#)

Tata Infotech

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The test consists of two parts.

Part A: Aptitude -- 100 questions 100 marks subdivided as:
Verbal Section

Letter series(alternately number series can be given)

Numerical Problems

Figures & Flowcharts

Part B: Computer knowledge test(purely technical) -- 50 questions 50 marks

The normal topics incl. C, Operating Systems(both Windows and UNIX),
DBMS etc are covered.

A different paper is held for EE students.

The pattern of the test is known to vary from time to time.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The interview questions were mainly on data structures, computer architecture, operating systems and computer networks.

Both technical and HR interviews are held. Also sometimes there may be a GD just to check the communications skills and awareness of the candidate.

Please refer to the [Interview section](#). for more details.

[Back To The Top](#)

• Profile

The company is a pioneer in the field of information technology. It is a **total systems integrator** and one of the largest software services and solutions provider in the world. It offers state-of-the-art technology solutions, such as **CallMail** and **SignBank**. Its activities include **software consulting, hardware manufacturing, offshore software development, systems integration, distribution of international software products, collaboration in advanced technologies and education services**. The company has a presence in technology areas such as **decision support, imaging, GIS, object-oriented technology and re-engineering**. It has segmented its market into **banking, finance and insurance, telecom and convergent industries, government, manufacturing, transportation, defence and commercial sectors**.

The company has front offices in **USA, South Africa, UK, The Netherlands, Germany, Tokyo and Australia**. Its branches and offices within India are at **Mumbai, Bangalore, Calcutta, Chennai, New Delhi, Noida, Pune, Goa, Ahmedabad, Cochin and Hyderabad**.

The company has alliances with **Unisys, Compaq, Sun, IBM, CISCO, BaaN, Oracle, Tandem, Microsoft, MapInfo and Uniplex**. The company's turnover in 1999-2000 was about **Rs. 432 crore**.

For more information about this company visit their homesite at www.tata.com/tata_infotech

[Back To The Top](#)

Tata Infotech Sample Test Paper

[Home](#)

[Back To Tata Infotech Page](#)

VERBAL SECTION

Directions: Give the synonyms for the following words

1. Depreciation: deflation, depression, devaluation, fall, slump
2. Deprecate : feel and express disapproval,
3. Incentive : thing one encourages one to do (stimulus)
4. Echelon : level of authority or responsibility
5. Innovation : make changes or introduce new things
6. Intermittent : externally stopping and then starting
7. Detrimental: harmful
8. Conciliation : make less angry or more friendly
9. Orthodox: conventional or traditional, superstitious
10. Fallible : liable to error
11. Volatile : ever changing
12. Manifest: clear and obvious
13. Connotation : suggest or implied meaning of expression
14. Reciprocal: reverse or opposite
15. Agrarian : related to agriculture
16. Vacillate : undecided or dilemma
17. Expedient : fitting proper, desirable

18. Simulate : produce artificially resembling an existing one.

19. Access : to approach

20. Compensation: salary

21. Truncate : shorten by cutting

22. Adherence : stick

23. Heterogenous: non similar things

24. Surplus : excessive

25. Assess : determine the amount or value

26. Cognizance : knowledge

27. Retrospective : review

28. Naive : innocent,rustic

29. Equivocate : tallying on both sides, lie, mislead

30. Postulate : frame a theory

31. Latent : dormant, secret

32. Fluctuation : wavering,

33. Eliminate : to reduce

34. Affinity : strong liking

35. Expedite : hasten

36. Console : to show sympathy

37. Adversary : opposition

38. Affable : lovable or approachable

39. Decomposition : rotten

40. Agregious : apart from the crowd, especially bad

41. Conglomeration: group, collection

- 42. Aberration: deviation
- 43. Aurgury : prediction
- 44. Crediability : ability to common belief, quality of being credible
- 45. Coincident: incidentally
- 46. Constituent : accompanying
- 47. Differential : having or showing or making use of
- 48. Litigation : engaging in a law suit
- 49. Maratorium: legally or officially determined period of dealy before fulfillment of the agreement of paying of debts.
- 50. Negotiate : discuss or bargain
- 51. Preparation : act of preparing
- 52. Preponderant : superiority of power or quality
- 53. Relevance : quality of being relevant
- 54. Apparatus : appliances
- 55. Ignorance : blindness, in experience
- 56. Obsession: complex enthusiasm
- 57. precipitate : speed,active

SERIES SECTION

Directions: In the following questions complete the series

NOTE: This section is quite tough and consists of 26 questions to be done in 10 minutes. Please keep track of time.

- 1. A C B D E F G I - I H K J L

Ans. H

2. A I Z B E Y C I X D I - G E N J W

Ans. W

3. A D G J M P - R W T S

Ans. S

4. A B C E F G I J K - M L O N P

Ans. M

5. A B F G K L P Q - T S V U W

Ans. U

6. J W X U V S T - Q P S E T

Ans. Q

7. A R H X Y T D T W S T - N P T K R

Ans. P

8. F M B I P Z V I E V - I R Y O U

9. N Z I Y C X K W F - J F V M Y

Ans. V

10. A A S A S P A S P K A - R Q T S U

Ans. S

11. A E C P S - T R U E

Ans. U

12. B B P R D D L N F F I K - H Q J I K

Ans. H

13 A Z E X I V M T - R Q N S O

Ans. Q

14. A B D G K P - L I W U X

Ans. U

15. B C D A E G H I F J L M N L K N M O

Ans. K

16. X W E F G V U H I J K - P N S R T

Ans. T

17. O D J T O P Q N O E R T - Q O U V W

Ans. O

18. P R N U U P E J R B B - H V U N E

Ans. E

19. L U L M G M N F N P S - O N Q P S

Ans. P

NUMERICAL ABILITY

1. $420\% \text{ OF } 7.79 = ?$

Ans. 32.718

2. $3427 / 16.53 = ?$

Ans. 202

3. $10995 / 95 = ?$

Ans.115.7365

4. $43+557-247 = ?$

Ans. 353

5. $3107*3.082 = ?$

Ans. 9591

6. $48.7 + 24.9 - 8.7 = ?$

Ans. 64.90

7. $525.0/47.8 = ?$

Ans. 11

8. $(135-30-14)*7 - 6 + 2 = ?$

Ans. 3

9. $3/8 * 5.04 = ?$

Ans. 1.89

10. $697 / 219 = ?$

Ans. 3.18

11. $8/64 + 64/16 = ?$

Ans. 4.14

12. $298 * 312 / 208 = ?$

Ans. 453.54

13. $0.33 * 1496 / 13 = ?$

Ans. 37.98

14. $0.26 + 1/8 = ?$

Ans. 0.385

15. $66.17 + 1/3 = ?$

Ans. 67.03

16. $2.84 + 1/4 = ?$

Ans. 3.09

17. 33% OF 450 = ?

Ans. 148.5

18. $907.54 / 0.3073 = ?$

Ans. 3002

19. There are two categories of persons in ratio A:B = 2:3. A type earns 2.5 dollars/hr and B type 1 dollar/hr total money earned by both is 24 dollars. Then what is the total number of persons

Ans. 15

20. Total balls are z, the number of red balls is n and the remaining are black balls, then the % of black balls equal to ?

Ans. $(z - n) / z * 100$

21. If $A = C$, $B = 2D$ what should be done to make the ratio same. i.e. $a/b = c/d$

Ans. Multiply A by 2

22. If P = Total number of components, Q = number of defective components .What is the % of non defective components?

Ans. $(p-q) / p * 100$

23. If the cost of an article is x , first discount given is $y\%$ of cost, second discount given is $z\%$ of cost . The selling price of x is

Ans. $x (1-y / 100) (1- z / 100)$

24. Which of the following are prime numbers

- (a) 119
- (b) 115
- (c) 127
- (d) none

Ans. (c)

25. $A / B = C$; $C > D$ then

- (a) A is always greater than D
- (b) C is always greater than D
- (c) B is always less than D
- (d) None of these

Ans. (a)

26. If $B > C$ and $A < C$ which of the following is larger than $A+B+C$

Ans. $(A + B)C$

27. If for H hours of work the salary is S and the employee gets x hours of medical leave, then what is the salary/hr ?

Ans. s/H-x

28. $(1/6 \text{ of } 596) / (0.695) = ?$

Ans. 142

29. $35 - 30 + 4/7 - 5 + 1 = ?$

Ans. 3

30. $10995 + 95 = ?$

Ans. 11090

31. If on a salary of Rs."S" per month,one has to pay one tax of x Rs. and a second type of tax of y Rs then % of salary taken home is?

Ans. $s - (x+y)/s * 100$

32. $B > A$ then which expression will be highest value

- (a) $A - B$
- (b) AB
- (c) $A + B$
- (d) Can't Say

Ans. (b)

33. K, L are men who take home a salary of x, y respectively.The total amount taken home is

Ans. $Kx + Ly$

34. If out of X bulbs y bulbs are broken;The % of non broken bulbs

Ans. $(x-y) / x * 100$

35. If on a salary s per month, a tax of x% of the salary and another of r% of the salary is deducted what is the income.

Ans. $s * (1 - (x+r)/100)$

36. $0.512 * 18902358 = ?$

Ans. 9678007.296

37. If the % of defective balls is 10% balls, and the number of defective balls is 5. The number of balls is

Ans. 50

38. 6.29% of 2.8 = ?

Ans. 0.18

39. $0.398 * 456 = ?$

Ans. 181.49

40. $0 < x < 1$ which is greater

(a) $1/x^2$

(b) $1/x$

(c) x

(d) x^2

Ans. (a)

41. If $c = a/b$; $a-1 = c$, what is the relation between a and b ?

Ans. $b = a/a-1$

42. What is the sum of 7 consecutive odd numbers with 27 as the fourth number

Ans. 189

FLOWCHART SECTION

Directions: There are 7 flow charts and each has 5-6 blank rectangles/diamonds with subquestion number in the rectangle/diamond. You have to fill the blank from the

5 options given against respective question number

NOTE: These types of questions are not at all tough. You have to understand the logic and then it is very easy to fill the blanks. Some information is provided for getting to the answers. There will be blanks which have to be filled.

Examples of flow charts asked to be filled :

- (1) There are 3 boxes of 3 balls each. you have to select the heaviest among all.
- (2) There are red and black balls in a box. You select some balls from the blocks. If the ball chosen is red then you get one point. If the chosen ball is ball black and previous ball is red then you get two points. For winning u have to get seven points. No point for selecting consecutive balls of the same color.
- (3) Classify objects in class A, class B and scrap. for classfing you have to do different tests such as weight test, material test etc.
- (4) There is production process in which action depends on temperature and pressure and we have some temperature and pressure controls. Draw a flowchart to complete the process.
- (5) Find max. and min. of the 12 nos. in an array. Arrange the array in ascending order and find the maximum and minimum value in the array
- (6) Different age group are given and also different salary slabs are given. Depending on the salary group as well as his group you have to classify the group of people in particular class.

[Back to top](#)

VeriFone Inc.

[Home](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

- **Written Test**

The paper consists of two parts, **Aptitude and Technical sections, to be completed in 45 minutes.** The **aptitude section has 20 questions to be completed in 15 minutes** and the **technical has 30 questions to be completed in 30 minutes.**

The **technical section has the following break-up:-**

- 1.Electronics-15 questions
- 2.Computer Networks-5 questions.
- 3.Operating Systems-5 questions.
- 4.Compilers and Algorithms-5 questions.
- 5.DBMS-5 questions
- 6.Data Structures-5 questions
- 7.C Programming-5 questions.

[Click here to see the sample test.](#)

[Back To The Top](#)

- **Interview**

The interview **lays stress on your technical stream.** The questions asked are from the subjects **Data Structures,C Programming, Operating Systems, Computer Networks,etc.**

Some of the questions asked were:

1. What is a finite Automata?

2. What is a real time system.?
3. What is binary search, traversal, hashing etc.
4. What is indexing in databases?
5. What is atomicity?
6. What is testing. what is unit testing, integration testing etc.

To know more about the interview we suggest that you look at the [Interview Section](#) in our site.

[Back To The Top](#)

● Profile

VeriFone, Inc., **founded in 1981, a wholly owned subsidiary of Hewlett-Packard Company**, is the **leading global provider of secure electronic payment solutions for financial institutions, merchants and consumers**. VeriFone has **shipped more than six million electronic payment systems, which are used in over 100 countries**.

For nearly two decades, VeriFone systems and solutions have delivered the speed, convenience and security of electronic payment to millions of businesses worldwide.

For more information about this company visit their homesite at www.verifone.com

[Back To The Top](#)

This is paper is being edited and it will be online very soon. Sorry for the inconvenience.

WILCO International

[Home](#)

[Sample Paper](#)

[Interview](#)

[Profile of the company](#)

• Written Test

The written test is of two parts:

Section A : Aptitude Test

Section B : C Test

The **aptitude** was a mixture of verbal, analytical and quantitative questions. It is based on a pattern similar to the GRE tests and questions found in R.S Agarwal

The **c section** tests your knowlege in pointers and basic C concepts.

[Click here to see the sample test.](#)

[Back To The Top](#)

• Interview

The interview is basically a technical inteview with stress on **C** again. Programs can be given on the spot such as reversal of a string implemented using data structures (like nodes) to test your knowledge and understanding of C concepts. Also questions on DBMS, OS and Data Structures can be asked. For further details please take a look at our [Interview section](#).

[Back To The Top](#)

• Profile

Wilco is an international software house, specialising in **financial services transaction processing**

systems and enterprise application integration.

Founded in 1970, the company has regional offices in **London, New York, Hong Kong, Tokyo, Geneva and Hyderabad** and employs over **750** professional.

Users of Wilco's products include **Merrill Lynch, Goldman Sachs, Nomura, IBJS, UBS Warburg and Deutsche Bank.**

Wilco is a wholly owned subsidiary of **Automatic Data Processing, Inc (ADP).**

For more information about this company visit their homesite at www.wilco-int.com

[Back To The Top](#)

WILCO Sample Test Paper

[Home](#)[Back To WILCO Page](#)

APTITUDE SECTION

Q1. Mr. Shah decided to walk down the escalator of a tube station. He found that if he walks down 26 steps, he requires 30 seconds to reach the bottom. However, if he steps down 34 stairs he would only require 18 seconds to get to the bottom. If the time is measured from the moment the top step begins to descend to the time he steps off the last step at the bottom, find out the height of the stair way in steps?

Ans.46 steps.

Q2. The average age of 10 members of a committee is the same as it was 4 years ago, because an old member has been replaced by a young member. Find how much younger is the new member ?

Ans.40 years.

Q3. Three containers A, B and C have volumes a, b, and c respectively; and container A is full of water while the other two are empty. If from container A water is poured into container B which becomes $\frac{1}{3}$ full, and into container C which becomes $\frac{1}{2}$ full, how much water is left in container A?

Q4. ABCE is an isosceles trapezoid and ACDE is a rectangle. $AB = 10$ and $EC = 20$. What is the length of AE?

Ans. $AE = 10$.

Q5. In the given figure, PA and PB are tangents to the circle at A and B respectively and the chord BC is parallel to tangent PA. If $AC = 6$ cm, and length of the tangent AP is 9 cm, then what is the length of the chord BC?

Ans. $BC = 4$ cm.

Q6. Three cards are drawn at random from an ordinary pack of cards. Find the probability that they will consist of a king, a queen and an ace.

Ans. $64/2210$.

Q7. A number of cats got together and decided to kill between them 999919 mice. Every cat killed an equal number of mice. Each cat killed more mice than there were cats. How many cats do you think there were ?

Ans. 991.

Q8. If $\log_2 x - 5 \log x + 6 = 0$, then what would the value / values of x be?

Ans. $x = e^2$ or e^3 .

Q9. The square of a two digit number is divided by half the number. After 36 is added to the quotient, this sum is then divided by 2. The digits of the resulting number are the same as those in the original number, but they are in reverse order. The ten's place of the original number is equal to twice the difference between its digits. What is the number?

Ans. 46

Q10. Can you tender a one rupee note in such a manner that there shall be total 50 coins but none of them would be 2 paise coins.?

Ans. 45 one paisa coins, 2 five paise coins, 2 ten paise coins, and 1 twenty-five paise coins.

Q11. A monkey starts climbing up a tree 20ft. tall. Each hour, it hops 3ft. and slips back 2ft. How much time would it take the monkey to reach the top?

Ans. 18 hours.

Q12. What is the missing number in this series?
8 2 14 6 11 ? 14 6 18 12

Ans. 9

Q13. A certain type of mixture is prepared by mixing brand A at Rs.9 a kg. with brand B at Rs.4 a kg. If the mixture is worth Rs.7 a kg., how many kgs. of brand A are needed to make 40kgs. of the mixture?

Ans. Brand A needed is 24kgs.

Q14. A wizard named Nepo says "I am only three times my son's age. My father is 40 years more than twice my age. Together the three of us are a mere 1240 years old." How old is Nepo?

Ans. 360 years old.

Q15. One dog tells the other that there are two dogs in front of me. The

other one also shouts that he too had two behind him. How many are they?

Ans. Three.

Q16. A man ate 100 bananas in five days, each day eating 6 more than the previous day. How many bananas did he eat on the first day?

Ans. Eight.

Q17. If it takes five minutes to boil one egg, how long will it take to boil four eggs?

Ans. Five minutes.

Q18. The minute hand of a clock overtakes the hour hand at intervals of 64 minutes of correct time. How much a day does the clock gain or lose?

Ans. 32 8/11 minutes.

Q19. Solve for x and y:

$$1/x - 1/y = 1/3, 1/x^2 + 1/y^2 = 5/9.$$

Ans. $x = 3/2$ or -3 and $y = 3$ or $-3/2$.

Q20. Daal is now being sold at Rs. 20 a kg. During last month its rate was Rs. 16 per kg. By how much percent should a family reduce its consumption so as to keep the expenditure fixed?

Ans. 20 %.

Q21. Find the least value of $3x + 4y$ if $x^2y^3 = 6$.

Ans. 10.

Q23. Can you find out what day of the week was January 12, 1979?

Ans. Friday.

Q24. A garrison of 3300 men has provisions for 32 days, when given at a rate of 850 grams per head. At the end of 7 days a reinforcement arrives and it was found that now the provisions will last 8 days less, when given at the rate of 825 grams per head. How, many more men can it feed?

Ans. 1700 men.

Q25. From 5 different green balls, four different blue balls and three different red balls, how many combinations of balls can be chosen taking at least one green and one blue ball?

Ans. 3720.

Q26. Three pipes, A, B, & C are attached to a tank. A & B can fill it in 20 & 30 minutes respectively while C can empty it in 15 minutes. If A, B & C are kept open successively for 1 minute each, how soon will the tank be filled?

Ans. 167 minutes.

Q27. A person walking $\frac{5}{6}$ of his usual rate is 40 minutes late. What is his usual time?

Ans. 3 hours 20 minutes.

TECHNICAL SECTION

Q1. typedef struct{
 char *;
 nodeptr next;
 } * nodeptr ;

What does nodeptr stand for?

Q2. What does. int *x[](); means ?

Q3. struct list{
 int x;
 struct list *next;
 }*head;

the struct head.x =100

Is the above assignment to pointer is correct or wrong ?

Ans. Wrong

Q4.What is the output of the following ?

```
int i;  
i=1;  
i=i+2*i++;  
printf("%d,i);
```

Ans. 4

Q5. FILE *fp1,*fp2;
fp1=fopen("one","w")

```

fp2=fopen("one","w")
fputc('A',fp1)
fputc('B',fp2)
fclose(fp1)
fclose(fp2)}

```

a.error b. c. d.

Ans. no error. But It will over writes on same file.

What are the output(s) for the following ?

Q6. #include<malloc.h>

```

char *f()
{ char *s=malloc(8);
strcpy(s,"goodbye")}
main()
{
    char *f();
    printf("%c",*f()='A');
}

```

Q7. #define MAN(x,y) (x)>(y)?(x):(y)

```

{
    int i=10;j=5;k=0;
    k= MAX(i++,++j)
    printf(%d %d %d %d,i,j,k)
}

```

Ans. 10 5 0

Q8. a=10;b=5; c=3;d=3;

```

if(a<b)&&(c=d++)
printf(%d %d %d %d a,b,c,d)
else printf("%d %d %d %d a,b,c,d);

```

Q9.

```
#include<stdarg.h>
show(int t,va_list ptr1)
{
    int a,x,i;
    a=va_arg(ptr1,int)
    printf("\n %d",a)
}
display(char)
{
    int x;
    listptr;
    va_star(otr,s);
    n=va_arg(ptr,int);
    show(x,ptr);
}
main()
{
    display("hello",4,12,13,14,44);
}
```

Q10.

```
main()
{
    printf("hello");
    fork();
}
```

Q11.

```
main()
{
    int i = 10;
    printf(" %d %d %d \n", ++i, i++, ++i);
}
```

Q12.

```
#include<stdio.h>
main()
{
    int *p, *c, i;
```

```

i = 5;
p = (int*) (malloc(sizeof(i)));
printf("\n%d",*p);
*p = 10;
printf("\n%d %d",i,*p);
c = (int*) calloc(2);
printf("\n%d\n",*c);
}

```

Q13. `#define MAX(x,y) (x)>(y)?(x):(y)`

```

main()
{
    int i=10,j=5,k=0;
    k= MAX(i++,++j);
    printf("%d..%d..%d",i,j,k);
}

```

Q14. `#include <stdio.h>`

```

main()
{
    enum _tag{ left=10, right, front=100, back};
    printf("left is %d, right is %d, front is %d, back is %d",left,right,front,back);
}

```

Q15. `main()`

```

{
    int a=10,b=20;
    a>=5?b=100:b=200;
    printf("%d\n",b);
}

```

Q16. `#define PRINT(int) printf("int = %d ",int)`

```

main()
{

```

```

int x,y,z;
x=03;y=02;z=01;
PRINT(x^x);
z<<=3;PRINT(x);
y>>=3;PRINT(y);
}

```

Q17. #include<stdio.h>

```

main()
{
    char s[] = "Bouquets and Brickbats";
    printf("\n%c, ",*(&s[2]));
    printf("%s, ",s+5);
    printf("\n%s",s);
    printf("\n%c",*(s+2));
}

```

Q18. main()

```

{
    struct s1
    {
        char *str;
        struct s1 *ptr;
    };
    static struct s1 arr[] = { {"Hyderabad",arr+1 },
    {"Bangalore",arr+2},
    {"Delhi",arr}
    };
    struct s1 *p[3];
    int i;
    for(i=0;i<=2;i++)
    p[i] = arr[i].ptr;

    printf("%s\n",(*p)->str);
    printf("%s\n",(++*p)->str);
    printf("%s\n",((*p)++)->str);
}

```

Q19. .main()
{
 char *p = "hello world!";
 p[0] = 'H';
 printf("%s",p);
}

[Back to top](#)

[Sample Test Papers](#)

[Interview](#)

[Profile of the company](#)

● Written Test

The Wipro test consists of 75 questions. It is a multiple choice test with **no** negative marking. The paper emphasises on your basic 11th and 12th standard physics, chemistry, maths with about 40-45 questions on these three subjects. There are about 10-15 data sufficiency and aptitude questions and about 15-20 technical questions on your respective branch of engineering. A separate paper is held for the various branches of engineering. The PCM and aptitude based questions are the same for everyone and different engineering branches have their own set of questions. Everyone though has an option of writing a hardware or software paper.

The following sets of questions are available:

[**Sample Test1**](#) [**Sample Test2**](#) [**Sample Test3**](#) **NEW!**

A part of the Wipro group, Wipro Infotech also has its own campus recruitments. Its test is technical with 50 MCQ to be done. A sample paper for Wipro Infotech for EE branch is given below

[**Click here to see the sample test for Wipro Infotech.**](#) **NEW!**

[Back To The Top](#)

● Interview

The test is followed by a Technical and a HR interview. The technical interview is highly specialised and covers almost all subjects you have done in your curriculum. However one is required to name his/her favorite subject on which most of the interview is focussed. For Computer Engineers C, Operating Systems, DBMS, Microprocessors are mostly focussed upon. Electronics Engineers can be grilled on DCLD, Microprocessors and Communications. For details on the frequently asked questions please refer to our [Interview section](#).

The HR interview which follows the technical interview is very general. In most cases questions regarding the company are asked. For details on the other frequently asked questions please refer to our [Interview section](#).

[Back To The Top](#)

● Profile

Wipro was previously known as **Western India Vegetable Products Ltd** was started by **Mr.M.H Premji**. The company manufactured vegetable oil, vegetable ghee and laundry soap. In 1966, upon the untimely demise of M.H. Premji, his son, **Mr.Azim Hasham Premji**, a 21-year-old student of engineering at Stanford University, was called upon to run the company. Under him, Wipro embarked on an ambitious phase of expansion. The business diversified into **fluid power, soaps, toiletries, lighting and baby care products**, and distribution was considerably expanded. Some of the important consumer products made by Wipro include **soaps, baby care products, bulbs, tubelights, shampoos, powder etc.** The financial strength of the consumer care division powered further

diversifications, particularly in **infotech** and **healthcare**.

The Infotech era began in the late seventies and Wipro set up its IT business in **Bangalore** in **1980**. Wipro became the No.1 listed company in the country in just 15 years. In a reorganisation, the firm went public with **Wipro Technologies**, the global IT services subsidiary, whose gross income grew by 65 percent to reach Rs.1042 crore(\$240 million). Wipro's software business was assessed at **SEI CMM Level 5**. Wipro's technology divisions, **global R&D** and **telecom solutions** contributed 46 percent of the software revenue, and the balance was accounted for by **enterprise solutions** business. **E-commerce** contributed 15 percent of enterprise solutions revenue for the year. Sales and other incomes of the second division, **Wipro Infotech**, the Indian IT services and products business that takes care of **networking solutions, customer services, computers and peripherals**, grew by 20 percent to Rs.825 crore.

Wipro Technologies soon plans to tap the global capital body through an issue of American Depository Receipts(ADR) or Global Depository Receipts(GDR). It established its headquarters in Santa Clara, US, with Mr.Vivek Paul as the company's president and CEO.

The **pay package** is around **Rs.17,000(approx.)** for the year 2000 recruits.

Mr.Azim H. Premji is presently the **Chairman**. Mr.Premji owns about 75 percent of the Wipro stock. He also happens to be the richest Indian in the world.

For more information about this company visit their homesite at www.wipro.com

[Back To The Top](#)

Wipro Sample Test #1

[Home](#)

[Back To Wipro Page](#)

1. An electron moving in an electromagnetic field moves in a

- (a) In a straight path
- (b) Along the same plane in the direction of its propagation
- (c) Opposite to the original direction of propagation
- (d) In a sine wave

Ans. (b)

2. The total work done on the particle is equal to the change in its kinetic energy

- (a) Always
- (b) Only if the forces acting on the body are conservative.
- (c) Only if the forces acting on the body are gravitational.
- (d) Only if the forces acting on the body are elastic.

Ans. (a)

3. The following unit measure energy:

- (a) Kilo-watt hour.
- (b) Volt*volt/sec*ohm.
- (c) Pascal*foot*foot
- (d) (Coulomb*coulomb)*farad

Ans. (a)

4. Astronauts in stable orbits around the earth are in a state of weightlessness because

- (a) There is no gravitational force acting on them.
- (b) The satellite and the air inside it have an acceleration equal to that of gravitational acceleration there.
- (c) The gravitational force of the earth and the sun balance giving null resultant.
- (d) There is no atmosphere at the height at which the satellites move.

Ans. (b)

5. An organ pipe, open at both ends and another organ pipe closed at one end, will resonate with each other, if their lengths are in the ratio of

- (a) 1:1
- (b) 1:4
- (c) 2:1
- (d) 1:2

Ans. (c)

6. During an isothermal expansion of an ideal gas

- (a) Its internal energy increases.
- (b) Its internal energy decreases.
- (c) Its internal energy does not change.
- (d) The work done by the gas is not equal to the quantity of heat absorbed by it.

Ans. (c)

7. A parallel plate capacitor is charged and the charging battery is then disconnected. If the plates of the capacitor are moved further apart by means of insulating handles

- (a) The charge on the capacitor increases.
- (b) The voltage across the plates increases.
- (c) The capacitance increases.
- (d) The electrostatic energy stored in the capacitor decreases.

Ans. (b)

8. Two equal negative charges q are fixed at point $(0,a)$ and $(0,-a)$ on the y -axis.

A positive charge Q is released from rest at the point $(2a,0)$ on the x -axis. The charge Q will

- (a) Execute simple harmonic motion about the origin
- (b) Move to the origin and remain at rest
- (c) Move to infinity
- (d) Execute oscillatory but not simple harmonic motion

Ans. (d)

9. A square conducting loop of length L on a side carries a current I .
The magnetic field at the centre of the loop is

- (a) Independent of L
- (b) Proportional to L^2
- (c) Inversely proportional to L
- (d) Directly proportional to L

Ans. (c)

10. The focal length of a convex lens when placed in air and then in water will

- (a) Increase in water with respect to air
- (b) Increase in air with respect to water
- (c) Decrease in water with respect to air
- (d) Remain the same

Ans. (a)

11. The maximum kinetic energy of the photoelectron emitted from the surface is dependant on

- (a) The intensity of incident radiation
- (b) The potential of the collector electrode
- (c) The frequency of incident radiation
- (d) The angle of incidence of radiation of the surface

Ans. (c)

12. An electron orbiting in a circular orbit around the nucleus of the atom

- (a) Has a magnetic dipole moment
- (b) Exerts an electric force on the nucleus equal to that on it by the nucleus
- (c) Does not produce a magnetic induction at the nucleus
- (d) All of the above

Ans. (d)

13. The X-rays beam coming from an X-ray tube will be:

- (a) Monochromatic
- (b) Having all wavelengths smaller than a certain minimum wavelength
- (c) Having all wavelengths larger than a certain minimum wavelength
- (d) Having all wavelengths lying between a minimum and a maximum wavelength

Ans. (c)

14. The mass number of a nucleus is

- (a) Always less than its atomic number
- (b) Always more than its atomic number
- (c) Always equal to its atomic number
- (d) Sometimes more and sometimes equal to its atomic number

Ans. (d)

15. Two successive elements belonging to the first transition series have the same number of electrons partially filling orbitals. They are

- (a) V and Cr
- (b) Ti and V
- (c) Mn and Cr
- (d) Fe and Co

Ans. (c)

16. When $n+l$ has the same value for two or more orbitals, the new electron enters the orbital where

- (a) n is maximum
- (b) n is minimum
- (c) l is maximum
- (d) l is minimum

Ans. (b)

17. A balloon filled with ethylene is pricked with a sharp pointed needle and quickly placed in a tank full of hydrogen at the same pressure. After a while the balloon would have

- (a) Shrunk
- (b) Enlarged
- (c) Completely collapsed
- (d) Remain unchanged in size

Ans. (b)

18. Which of the following statements is not true?

- (a) The ratio of the mean speed to the rms speed is independent of temperature
- (b) The square of the mean speed of the molecules is equal to the mean squared speed at a certain temperature
- (c) Mean kinetic energy of the gas molecules at any given temperature is independent of the mean speed
- (d) None

Ans. (b)

19. Which of the following statements represent Raoult's Law

- (a) Mole fraction of solvent = ratio of vapour pressure of the solution to vapour pressure of the solvent
- (b) Mole fraction of solute = ratio of vapour pressure of the solution to vapour pressure of the solvent
- (c) Mole fraction of solute = lowering of vapour pressure of the solution
- (d) Mole fraction of solvent = lowering of vapour pressure of the solution

Ans. (a)

20. Elements having the same atomic number and the same atomic mass are known as

- (a) Isotopes
- (b) Isotones
- (c) Isomers
- (d) None of the above

21. Which is the most acidic amongst

- (a) Nitrophenol
- (b) O-toulene
- (c) Phenol
- (d) Cresol

22. Pure water does not conduct electricity because it is

- (a) Almost not ionised
- (b) Low boiling
- (c) Neutral
- (d) Readily decomposed

Ans. (a)

23. In a salt bridge, KCl is used because

- (a) It is an electrolyte
- (b) The transference number of K^+ and Cl^- is nearly the same
- (c) It is a good conductor of electricity
- (d) All of the above

Ans. (d)

24. A depolarizer used in the dry cell batteries is

- (a) KCl
- (b) MnO_2
- (c) KOH
- (d) None of the above

Ans. (b)

25. The hydrolysis of alkyl halides by aqueous NaOH is best termed as

- (a) Electrophylic substitution reaction
- (b) Electrophylic addition reaction
- (c) Nnucleophylic addition reaction
- (d) Nucleophylic substitution reaction

Ans. (d)

26. The hydrocarbon that gives a red precipitate with ammoniacal cuprous chloride is (where ' \equiv ' means a triple bond)

- (a) $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_3$
- (b) $\text{CH}_3\text{-C}\equiv\text{C-CH}_3$
- (c) $\text{CH}_2=\text{CH-CH=CH}_2$
- (d) $\text{CH}_3\text{-CH}_2\text{-C}\equiv\text{CH}$

Ans. (d)

27. Which of the following reagents is neither neutral nor basic

- (a) Lucas' reagent
- (b) Tollen's reagent
- (c) Bayer's reagent
- (d) Fehling's solution

Ans. (a)

28. The substance which is most easily nitrated

- (a) Toluene
- (b) Benzene
- (c) Nitrobenzene
- (d) Chlorobenzene

Ans. (a)

29. Carbylamine reaction is a test for

- (a) Primary amine
- (b) Secondary amine
- (c) Tertiary amine
- (d) Quarternary ammonium salt

Ans. (a)

30. Which of the following oxides cannot be reduced by carbon to obtain metal

- (a) ZnO
- (b) Al₂O₃
- (c) Fe₂O₃
- (d) PbO

Ans. (b)

31. Which of the following is not an oxide ore?

- (a) Cassiterite
- (b) Siderite
- (c) Pyrolusite
- (d) Bauxite

Ans. (b)

32. Which among the following is called philosopher's wool

- (a) Cellulose
- (b) Calamine
- (c) Stellite
- (d) Cerussite

Ans. (c)

33. Out of 10 white, 9 black and 7 red balls, in how many ways can we select one or more balls

- (a) 234
- (b) 52
- (c) 630
- (d) 879

Ans. (d)

34. A and B throw a dice. The probability that A's throw is not greater than B's is

- (a) $5/12$
- (b) $7/12$
- (c) $11/12$
- (d) $5/36$

Ans. (b)

35. Given two numbers a and b. Let A denote the single AM between these and S denote the sum of n AMs between them. Then S/A depends upon

- (a) n
- (b) n,a
- (c) n,b
- (d) n,a,b

Ans. (a)

36. If the sum of the roots of the equation $ax^2+bx+c=0$ is equal to the sum of the squares of their reciprocals, then, a/c , b/a , c/b are in

- (a) AP
- (b) GP
- (c) HP
- (d) None of these

Ans. (c)

In the following questions \sim represents the integral sign-for eg. $1\sim 2[f(x)]$ means integration of the function $f(x)$ over the interval 1 to 2.

37. Value of $-1\sim 2[|2-x^2|]dx$, ie integration of the function $|2-x^2|$ over the interval -1 to 2.

- (a) 0
- (b) 1

- (c) 2
- (d) None of the above

Ans. (d)

38. If $\int_0^{\pi} [\log \sin x] dx = k$, then the value of $\int_0^{\pi/4} [\log(1 + \tan x)] dx$, where π stands for pi, is

- (a) $-k/4$
- (b) $k/4$
- (c) $-k/8$
- (d) $k/8$

Ans. (c)

39. If a, b, c be in GP and p, q be respectively AM between a, b and b, c then

- (a) $\frac{2}{b} = \frac{1}{p} + \frac{1}{q}$
- (b) $\frac{2}{b} = \frac{1}{p} - \frac{1}{q}$
- (c) $2 = \frac{a}{p} - \frac{c}{q}$
- (d) None of the above

Ans. (a)

40. A solution of KMnO_4 is reduced to MnO_2 . The normality of solution is 0.6. The molarity is

- (a) 1.8M
- (b) 0.6M
- (c) 0.1M
- (d) 0.2M

Ans. (d)

The questions 41-46 are based on the following pattern. The problems below contain a question and two statements giving certain data. You have to decide whether the data given in the statements are sufficient for answering the questions. The correct answer is

- (A) If statement (I) alone is sufficient but statement (II) alone is not sufficient.

- (B) If statement(II) alone is sufficient but statement(I) alone is not sufficient.
- (C) If both statements together are sufficient but neither of statements alone is sufficient.
- (D) If both together are not sufficient.

41. What is John's age?

- (I) In 15 years John will be twice as old as Dias would be
- (II) Dias was born 5 years ago

Ans. (C)

42. What is the distance from city A to city C in kms?

- (I) City A is 90 kms from City B
- (II) City B is 30 kms from City C

Ans. (D)

43. Is $A=C$? A,B,C are real numbers

- (I) $A-B=B-C$
- (II) $A-2C = C-2B$

Ans. (C)

44. What is the 30th term of a given sequence ?

- (I) The first two terms of the sequence are $1, 1/2$
- (II) The common difference is $-1/2$

Ans. (A)

45. Was Avinash early, on time or late for work?

- (I) He thought his watch was 10 minutes fast
- (II) Actually his watch was 5 minutes slow

Ans. (D)

46. What is the value of A if A is an integer?

(I) $A^4 = 1$

(II) $A^3 + 1 = 0$

Ans. (B)

47. A person travels 12 km in the southward direction and then travels 5km to the right and then travels 15km toward the right and finally travels 5km towards the east, how far is he from his starting place?

(a) 5.5 kms

(b) 3 km

(c) 13 km

(d) 6.4 km

Ans. (b)

48. X's father's wife's father's granddaughter uncle will be related to X as

(a) Son

(b) Nephew

(c) Uncle

(d) Grandfather

Ans. (c)

49. Find the next number in the series **1, 3 ,7 ,13 ,21 ,31**

(a) 43

(b) 33

(c) 41

(d) 45

Ans. (a)

50. If in a certain code "RANGE" is coded as 12345 and "RANDOM" is coded as 123678. Then the code for the word "MANGO" would be

- (a) 82357
- (b) 89343
- (c) 84629
- (d) 82347

Ans. (d)

51. If "PROMPT" is coded as QSPLOS ,then "PLAYER" should be

- (a) QMBZFS
- (b) QWMFDW
- (c) QUREXM
- (d) URESTI

Ans. (a)

The questions 52-53 are based on the following data

6 people A,B,C,D,E and F sit around a table for dinner.Since A does not like C, he doesn't sit either opposite or beside C.B and F always like to sit opposite each other.

52. If A is beside F then who is are the two neighbours of B?

- (a) D and C
- (b) E and C
- (c) D and E
- (d) Either (a) or (b)

Ans. (c)

53. If D is adjacent to F then who is adjacent to C?

- (a) E and B
- (b) D and A

- (c) D and B
- (d) either (a) or (c)

Ans.(d)

54. Complete the sequence **A, E ,I ,M ,Q ,U , _ , _**

- (a) B, F
- (b) Y, C
- (c) G, I
- (d) K, O

Ans.(b)

55. A person travels 6km towards west, then travels 5km towards north ,then finally travels 6km towards west. Where is he with respect to his starting position?

- (a) 13km east
- (b) 13km northeast
- (c) 13km northwest
- (d) 13km west

Ans. (c)

56. If A speaks the truth 80% of the times, B speaks the truth 60% of the times.
What is the probability that they tell the truth at the same time

- (a) 0.8
- (b) 0.48
- (c) 0.6
- (d) 0.14

Ans.(b)

57. If the time quantum is too large, Round Robin scheduling degenerates to

- (a) Shortest Job First Scheduling
- (b) Multilevel Queue Scheduling

- (c) FCFS
- (d) None of the above

Ans. (c)

58. Transponders are used for which of the following purposes

- (a) Uplinking
- (b) Downlinking
- (c) Both (a) and (b)
- (d) None of the above

Ans. (c)

59. The format specifier "-%d" is used for which purpose in C

- (a) Left justifying a string
- (b) Right justifying a string
- (c) Removing a string from the console
- (d) Used for the scope specification of a char[] variable

Ans. (a)

60. Virtual functions allow you to

- (a) Create an array of type pointer-to-base-class that can hold pointers to derived classes
- (b) Create functions that have no body
- (c) Group objects of different classes so they can all be accessed by the same function code
- (d) Use the same function call to execute member functions to objects from different classes

62. A sorting algorithm which can prove to be a best time algorithm in one case and a worst time algorithm in worst case is

- (a) Quick Sort
- (b) Heap Sort
- (c) Merge Sort
- (d) Insert Sort

Ans. (a)

63. What details should never be found in the top level of a top-down design?

- (a) Details
- (b) Coding
- (c) Decisions
- (d) None of the above

Ans. (c)

64. In an absolute loading scheme, which loader function is accomplished by assembler

- (a) Reallocation
- (b) Allocation
- (c) Linking
- (d) Both (a) and (b)

Ans. (d)

65. Banker's algorithm for resource allocation deals with

- (a) Deadlock prevention
- (b) Deadlock avoidance
- (c) Deadlock recovery
- (d) None of these

Ans. (b)

66. Thrashing can be avoided if

- (a) The pages, belonging to the working set of the programs, are in main memory
- (b) The speed of CPU is increased
- (c) The speed of I/O processor are increased
- (d) All of the above

Ans. (a)

67. Which of the following communications lines is best suited to interactive processing applications?

- (a) Narrowband channels
- (b) Simplex channels
- (c) Full-duplex channels
- (d) Mixedband channels

Ans. (b)

68. A feasibility document should contain all of the following except

- (a) Project name
- (b) Problem descriptions
- (c) Feasible alternative
- (d) Data flow diagrams

Ans. (d)

69. What is the main function of a data link content monitor?

- (a) To detect problems in protocols
- (b) To determine the type of transmission used in a data link
- (c) To determine the type of switching used in a data link
- (d) To determine the flow of data

Ans. (a)

70. Which of the following is a broadband communications channel?

- (a) Coaxial cable
- (b) Fiber optic cable
- (c) Microwave circuits
- (d) All of the above

Ans. (d)

71. Which of the following memories has the shortest access time?

- (a) Cache memory
- (b) Magnetic bubble memory
- (c) Magnetic core memory
- (d) RAM

Ans. (a)

72. A shift register can be used for

- (a) Parallel to serial conversion
- (b) Serial to parallel conversion
- (c) Digital delay line
- (d) All the above

Ans. (d)

73. In which of the following page replacement policies, Balady's anomaly occurs?

- (a) FIFO
- (b) LRU
- (c) LFU
- (d) NRU

Ans. (a)

74. Subschema can be used to

- (a) Create very different, personalised views of the same data
- (b) Present information in different formats
- (c) Hide sensitive information by omitting fields from the sub-schema's description
- (d) All of the above

Ans. (d)

75. Question on l-values in automata

[Back to top](#)

Wipro Test #2

[Home](#)[Back To Wipro Page](#)

1. When a bicycle is in motion, the force of friction exerted by the ground on the two wheels is such that it acts

- (a) In the backward direction on the front wheel and in the forward direction on the rear wheel.
- (b) In the forward direction on the front wheel and in the backward direction on the rear wheel.
- (c) In the backward direction on both the front and rear wheels.
- (d) In the backward direction on both the front and rear wheels.

Ans. (d)

2. A certain radioactive element A, has a half life = t seconds.

In $(t/2)$ seconds the fraction of the initial quantity of the element so far decayed is nearly

- (a) 29%
- (b) 15%
- (c) 10%
- (d) 45%

Ans. (a)

3. Which of the following plots would be a straight line ?

- (a) Logarithm of decay rate against logarithm of time
- (b) Logarithm of decay rate against logarithm of number of decaying nuclei
- (c) Decay rate against time
- (d) Number of decaying nuclei against time

Ans. (b)

4. A radioactive element x has an atomic number of 100.

It decays directly into an element y which decays directly into element z.

In both processes a charged particle is emitted.

Which of the following statements would be true?

- (a) y has an atomic number of 102
- (b) y has an atomic number of 101
- (c) z has an atomic number of 100
- (d) z has an atomic number of 101

Ans. (b)

5. If the sum of the roots of the equation $ax^2 + bx + c = 0$ is equal to the sum of the squares of their reciprocals
then $a/c, b/a, c/b$ are in

- (a) AP
- (b) GP
- (c) HP
- (d) None of these

Ans. (c)

6. A man speaks the truth 3 out of 4 times.
He throws a die and reports it to be a 6.
What is the probability of it being a 6?

- (a) $3/8$
- (b) $5/8$
- (c) $3/4$
- (d) None of the above

Ans. (a)

7. If $\cos^2 A + \cos^2 B + \cos^2 C = 1$ then ABC is a

- (a) Right angle triangle
- (b) Equilateral triangle
- (c) All the angles are acute
- (d) None of these

Ans. (a)

8. Image of point (3,8) in the line $x + 3y = 7$ is

- (a) (-1,-4)
- (b) (-1,4)
- (c) (2,-4)
- (d) (-2,-4)

Ans. (a)

9. The mass number of a nucleus is

- (a) Always less than its atomic number
- (b) Always more than its atomic number
- (c) Sometimes more than and sometimes equal to its atomic number
- (d) None of the above

Ans. (c)

10. The maximum KE of the photoelectron emitted from a surface is dependent on

- (a) The intensity of incident radiation
- (b) The potential of the collector electrode
- (c) The frequency of incident radiation
- (d) The angle of incidence of radiation of the surface

Ans. (c)

11. Which of the following is not an essential condition for interference

- (a) The two interfering waves must be propagated in almost the same direction or the two interfering waves must intersect at a very small angle
- (b) The waves must have the same time period and wavelength
- (c) Amplitude of the two waves should be the same
- (d) The interfering beams of light must originate from the same source

Ans. (c)

12. When X-Ray photons collide with electrons

- (a) They slow down
- (b) Their mass increases
- (c) Their wave length increases
- (d) Their energy decreases

Ans. (c)

13. An electron emits energy

- (a) Because its in orbit
- (b) When it jumps from one energy level to another
- (c) Electrons are attracted towards the nucleus
- (d) The electrostatic force is insufficient to hold the electrons in orbits

Ans. (b)

14. How many bonds are present in CO_2 molecule?

- (a) 1
- (b) 2
- (c) 0
- (d) 4

Ans. (d)

15. In a balanced chemical equation

- (a) Atoms are conserved
- (b) Molecules are conserved
- (c) Moles are conserved
- (d) Reactant and product molecules are preserved

Ans. (a)

16. How many grams of NaOH will react with 0.2 equivalent of HCl?

- (a) 0.59

- (b) 0.285
- (c) 1.18
- (d) none of these

Ans. (a)

17. Which of the following is least acidic

- (a) Ortho-cresol
- (b) Para-cresol
- (c) Phenol
- (d) Meta-cresol

Ans. (b)

18. In Reimer-Tiemann's reaction, the reaction intermediate is

- (a) Carbene
- (b) Dichloro carbene
- (c) Carbonion
- (d) Carbonium ion

Ans. (b)

19. Which of the following is most acidic?

- (a) $\text{C}_2\text{H}_5\text{OH}$
- (b) $\text{CH}_3\text{CHOHCH}_3$
- (c) Ethanol
- (d) CH_3OH

Ans. (b)

20. A catalyst

- (a) always slows down the reaction
- (b) always starts a reaction that would not have occurred at all otherwise
- (c) causes changes in the rate of the reaction

(d) changes the quantities of the products formed

Ans. (c)

21. The rate of the first order reaction depends on the

- (a) Concentration of the reactant
- (b) Concentration of the product
- (c) Time
- (d) Temperature

Ans. (d)

22. The most abundant element in the universe is

- (a) Hydrogen
- (b) Helium
- (c) Oxygen
- (d) Silicon

Ans. (a)

23. Integrate $3x + 5 / (x^3 - x^2 - x + 1)$

- (a) $\frac{1}{2} \log \left| \frac{(x+1)}{(x-1)} \right| - \frac{4}{(x-1)}$
- (b) $\log |2 + \tan x|$
- (c) $-(1 + \log x)/x$
- (d) $2 \log |(\tan x)/(\tan x + 2)|$

Ans. A

24. If $y = \cos^{-1}(\cos x + 4\sin x)/(17)^{1/2}$, then dy/dx is

- (a) 0
- (b) 1
- (c) -1
- (d) none of these

Ans. (b)

25. If the sum of n terms of two series of A.P are in the ratio $5n+4:9n+6$.find the ratio of their 13th terms

- (a) 129/231
- (b) 1/2
- (c) 23/15
- (d) None of the above

Ans. (a)

26. If the letters of the word "rachit" are arranged in all possible ways and these words are written out as in a dictionary, what is the rank of the word "rachit".

- (a) 485
- (b) 480
- (c) 478
- (d) 481

Ans. (d)

27. Ravi's salary was reduced by 25%.Percentage increase to be effected to bring the salary to the original level is

- (a) 20%
- (b) 25%
- (c) $33 \frac{1}{3}\%$
- (d) 30%

Ans. (c)

28. A and B can finish a piece of work in 20 days .B and C in 30 days and C and A in 40 days.
In how many days will A alone finish the job

- (a) 48
- (b) $34 \frac{2}{7}$
- (c) 44
- (d) 45

Ans. (a)

29. How long will a train 100m long travelling at 72kmph take to overtake another train 200m long travelling at 54kmph

- (a) 70sec
- (b) 1min
- (c) 1 min 15 sec
- (d) 55 sec

Ans. (b)

30. What is the product of the irrational roots of the equation $(2x-1)(2x-3)(2x-5)(2x-7)=9$?

- (a) $3/2$
- (b) 4
- (c) 3
- (d) $3/4$

Ans. (a)

31. Which of the following parameters is the same for molecules of all gases at a given temperature?

- (a) Mass
- (b) Momentum
- (c) Speed
- (d) Kinetic energy

Ans. (d)

32. A solid is completely immersed in liquid. The force exerted by the liquid on the solid will

- (a) Increase if it is pushed deeper inside the liquid
- (b) Change if its orientation is changed
- (c) Decrease if it is taken partially out of the liquid
- (d) None of the above

Ans. (c)

33. Select the correct statements

- (a) A simple harmonic motion is necessarily periodic
- (b) An oscillatory motion is necessarily periodic
- (c) A periodic motion is necessarily oscillatory
- (d) All of the above

Ans. (a)

34. An electron is injected into a region of uniform magnetic flux density with the components of velocity parallel to and normal to the flux. What is the path of the electron?

- (a) Helix
- (b) Parabola
- (c) Circle
- (d) Rectangle

Ans. (a)

35. A constant voltage is applied between the 2 ends of a uniform metallic wire. Some heat is developed in it. The heat developed is doubled if

- (a) both the length and radius of the wire are halved.
- (b) both the length and radius of the wire are doubled
- (c) the radius of the wire is doubled
- (d) the length of the wire is doubled

Ans. (b)

36. If Young's double slit experiment is performed in water

- (a) the fringe width will decrease
- (b) the fringe width will increase
- (c) the fringe width remains unchanged
- (d) there will be no fringe

Ans. (a)

37. The shape of a spot of light produced when bright sunshine passes perpendicular through a hole of very small size is

- (a) Square, because the hole is a square
- (b) Round, because it is an image of the sun
- (c) Round with a small penumbra around it
- (d) Square with a small penumbra

Ans. (b)

Select the alternative that logically follows from the two given statements.

38.

- Some forms are books
- All books are made of paper

- (a) Some forms are made of paper
- (b) Some forms are not made of paper
- (c) No forms are made of paper
- (d) None of the above

Ans. (a)

39.

- All toffees are chocolates
- Some toffees are not good for health

- (a) Some chocolates are not good for health
- (b) Some toffees are good for health
- (c) No toffees are good for health
- (d) Both (a) and (b)

Ans. (a)

The questions 40-46 are based on the following pattern. The problems below contain a question and two statements giving certain data. You have to decide whether the data given in the statements are sufficient for answering the questions. The correct answer is

- (A) If statement (I) alone is sufficient but statement (II) alone is not sufficient.
- (B) If statement (II) alone is sufficient but statement (I) alone is not sufficient.
- (C) If both statements together are sufficient but neither of statements alone is sufficient.
- (D) If both together are not sufficient.
- (E) If statements (I) and (II) are not sufficient

40. What is the volume of a cubical box in cubic centimetres?

- (I) One face of the box has an area of 49 sq.cms.
- (II) The longest diagonal of the box is 20 cms.

Ans. D

41. Is z positive?

- (I) $y+z$ is positive
- (II) $y-z$ is positive

Ans. E

42. Is $x > y$? x, y are real numbers?

- (I) $8x = 6y$
- (II) $x = y + 4$

Ans. B

43. If a ground is rectangular, what is its width?

- (I) The ratio of its length to its breadth is 7:2
- (II) Perimeter of the playground is 396 mts.

Ans. C

44. If the present age of my father is 39 yrs and my present age is x yrs, what is x?

- (I) Next year my mother will be four times as old as i would be.
- (II) My brother is 2 years older than I and my father is 4 years older than my mother.

Ans. C

45. How many brothers and sisters are there in the family of seven children?

- (I) Each boy in the family has as many sisters as brothers
- (II) Each of the girl in the family has twice as many brothers as sisters

Ans. D

46. x is not equal to 0, is $x + y = 0$?

- (I) x is the reciprocal of y
- (II) x is not equal to 1

Ans. A

Following questions are based on letter's analogy. First pair of letters should have the same relationship as the second pair of letters or vice versa.

47. ? : BGLQ : : YDIN : VAFK

- (a) EKNS
- (b) DKMT
- (c) DLMS
- (d) EJOT

Ans. (d)

48. NLO : RPS : : ? : ZXA

- (a) VUW

- (b) VTR
- (c) VTW
- (d) TRP

Ans. (c)

49. If "segment" is coded as rffndou, then "ritual" is coded as

- (a) shutbm
- (b) qjutbk
- (c) qhutbk
- (d) qhubtk

Ans. (c)

50. If "football" is "cricket" ,"cricket" is "basketball" ,"basketball" is "volleyball","volleyball" is "khokho" and "khokho" is cricket, which is not a ball game?

- (a) cricket
- (b) football
- (c) khokho
- (d) basketball

Ans. (a)

51. Which of the following is a recursive set of production

- (a) $S \rightarrow a|A, A \rightarrow S$
- (b) $S \rightarrow a|A, A \rightarrow b$
- (c) $S \rightarrow aA, A \rightarrow S$
- (d) None of these

Ans. (c)

[Back to top](#)

Wipro Sample Test #3

[Home](#)

[Back To Wipro Page](#)

Q1. Two bodies changed from p_1v_1 to p_2v_2 state in two ways. The heat supplied is ΔQ and work done is ΔW

Then what is constant in these two processes

- (a) Δq
- (b) Δw
- (c) $\Delta q + \Delta w$
- (d) $\Delta q - \Delta w$

Ans. (d)

Q2. _____ have same atomic number and same mass number are

- (a) Isotopes
- (b) Isotones
- (c) Isomers
- (d) Isobars

Ans. (c)

Q3. When a free electron is placed in a plane of electro magnetic then it moves in

- (a) in the direction of the electric field
- (b) in the direction of magnetic field
- (c) of propagation of wave
- (d) of the plane containing magnetic field and propagation direction.

Q4. Name the phenomena in which one proton is jumped from one isomer to another isomer to create two different elements

- (a) functional isomerism
- (b) stereo isomerism

- (c) tauto merisim
- (d) penta merisim

Ans. (c)

Q5. In the below compounds which one has 40% C ,6.7% H and 53.3 % O what is its empirical formula

- (a) CHO
- (b) CH₂
- (c) C₂H₂O₂
- (d) C₂H₃O₂

Ans: (b)

Q6. X rays are coming from X ray tube, the wavelength is _____ a certain wavelength/s

- (a) below
- (b) above
- (c) inbetween
- (d) out of

Ans. (c)

Q7. In a triode valve in order to increase the saturation current what has to be done

- (a) increase plate voltage
- (b) reduce distance between grid and plate
- (c) increase cathode potential
- (d) reduce grid potential

Ans. (d)

Q8. Seven different toys are distributed among 3 children how many different ways are possible?

- (a) 7C_3
- (b) 7P_3
- (c) 3^7
- (d) 7^3

Ans. (c)

Q9. A, B and C are three speakers. They have to speak randomly along with another 5 speakers in a function.

A has to speak before B and B has to speak before C. What is the probability.

Ans. 1/6

Q10. If $dy = (\sec x + y \tan x)dx$, Then the curve is

(a) $x = y \cos x$

(b) $x = y \sin x$

(c) $x = y \tan x$

(d) $x = y \sec x$

Ans. (a)

Q11. Two series are 16,21,26.... and 17,21,25.....

What is the sum of first hundred common numbers

(a) 101100

(b) 110100

(c) 101110

(d) 110101

Ans. (a)

Q12. There are two sections in a question paper each contain five questions. A student has to answer 6 questions.

Maximum no. of questions that can be answered from any section is 4. How many ways he can attempt the paper?

(a) 50

(b) 100

(c) 120

(d) 200

Ans. (d)

Q13. a and b are two numbers selected randomly from 1,2,3.... 25 what is the probability of a and b are not equal.

- (a) $1/25$
- (b) $24/25$
- (c) $13/25$
- (d) $2/25$

Ans. (b)

Q14. The sum of the series $1 + 1(1+1/n) + 3(1+1/n)^2 + \dots$ is equal to?

Ans. n^2

Q15. Two circles of different radii intersect each other what is the maximum no of intersections

- (a) 0
- (b) 1
- (c) 2
- (d) 3

Ans. (c)

Q16. If $x = \sin^{-1}(t)$, $y = \log(1-t^2)$, find d^2y/dx^2 when $t=1/2$

- (a) 1
- (b) 0
- (c) $-8/3$
- (d) $-2/3$

Ans. (c)

Q17. If x approaches infinity , then $(\int e^x dx) / (\int e^{2x} dx)$ is ?

- (a) 1
- (b) 0
- (c) -1
- (d) 2

Ans. (a)

Q18. If $f(x) = 1 - \cos(1 - \cos x)/x^4$ is continuous at $f(0)$ then what is x

- (a) 1
- (b) 0
- (c) $1/4$
- (d) $-1/4$

Ans. (c)

Q19. For the word SURITI, if you arrange the letters in dictionary order then what is its rank?

- (a) 234
- (b) 235
- (c) 236
- (d) 237

Ans. (c)

Q20. Period of $\sin((2t + 3)/6\pi)$

- (a) 6π
- (b) $6\pi^2$
- (c) 3π

Ans. (b)

Q21 - Q23. Four questions given on the below data

X, Y and Z are senior engineers. A, B, C, D are junior engineers. Company wants to select 4 engineers. Two will be senior and two will be juniors. The company wants these engineers to work in the most productive way so they respect each person's likes/dislikes.

- Y is not friends with A
- Z is not friends with C
- B is not friends with A

1. If B is selected then who will be the remaining 4 members ?

2. If C is selected, Z and ____ cannot be selected?
3. D is always selected if ____ is selected?

Q24. A speaks truth 70% of the times, B speaks truth 80% of the times.
What is the probability that both are contradicting each other is ?

Q25. $\int ((2x-3)/((x^2+x+1)^2))dx$ is ?

Q26. Ram starts from A walking 2 km North and turns right and walks 4 km and turns right again and walks 4 km and turns right again and walks 4 km and meets Radha at B walking in the opposite direction to Ram .

- a) Which direction does Ram walk after the first turn?
- b) Distance between A and B

Q27. If the equation $x^2 - 3x + a = 0$ has the roots (0,1) then value of a is ?

Q28. A and B's temperature are 10°C and 20°C having same surface , then their ratio of rate of emissions is ?

Q29. An atomic particle exists and has a particular decay rate . It is in a train . When the train moves, a person observes _____ for whether the decay rate

- (a) increases
- (b) decreases
- (c) depend on the directions of movement of train

Q30. Which of the following exchanges positive ions

- (a). Cl^-
- (b) NH_2^-
- (c) CH_2

Ans. (b)

Q31. After execution of CMP, a instruction in Intel 8085 microprocessor

- (a) ZF is set and CY is reset.
- (b) ZF is set CY is unchanged
- (c) ZF is reset, CY is set
- (d) ZF is reset , CY is unchanged .

Ans. ZF is set and CY is reset

Q32. The best tool for editing a graphic image is ?

Q33. Network scheme defines

- a.)one to one
- b.) many to many
- c.) one to ,many ?

Q34. A person wants to measures the length of a rod.First he measures with standing ideally then he maeasures by
moving parrel to the rod

- (a)the length will decrease in second case
- (b)length will be same
- (c) length will increse in the second case.

Q35. One U-230 nucleus is placed in a train moving by velocity emitting alpha rays .When the train is at rest the
distance between nucleus and alpha particle is x . One passenger is observing the particle . When the train is moving
what is the distance between particle and nucleus ?

- (a) x
- (b) $x + vt$
- (c) $x - vt$

Q36. What is the resulting solution when benzene and toluene are mixed ?

Q37. If the word FADENCOMT equals 345687921 then

1. What is FEAT
2. Find representation of 2998

Q38. Given 10 alphabets out of which 5 are to be chosen. How many words can be made with atleast one repetition.

Q39. Arrange by acidic values : phenol, nitrotolouene and o-cresol?

Q40. Find sum of $3 + 5/(1+2^2) + 7/(1 + 2^2 + 3^2) + \dots$

Ans. $3n/(1 + n)$

The following are few sample questions that maybe asked in the software paper. We haven't been able to give the values in certain problems ; only the type of questions have been mentioned.

Q What sorting algos have their best and worst case times equal ?

Ans. $O(n \log n)$ for mergesort and heap sort

Q. What page replacement algo . has minimum number of page faults ?

Ans. Optimality algorithm

Q. What is the use of virtual base class in c++

Ans. Multiple lines between derived classes.

Q. Find the eccentricity of a given node in a directed graph

Q. Convert the infix to postfix for $A-(B+C)*(D/E)$

Ans. $ABC+DE/*-$

Q. What is swapping

Q. Assignment operator targets to

Ans. l-value

Q. A byte addressable computer has memory capacity of 2^m Kbytes and can perform 2^n operations

an instruction involving three operands and one operator needs maximum of ---bits

Ans. $3m + n$

Q. In round robin scheduling, if time quatum is too large then it degenerates to

Ans. FCFS

Q. What is network schema?

Q. Packet Burst is _____

Q. Picard's method uses _____?

Ans. Successive Differentiation.

The following are few sample questions that maybe asked in the hardware paper. We haven't been able to give the values in certain problems ; only the type of questions have been mentioned.

Q. Concentration and restivity is given and conductivity is asked for ?

Q. R , resistance and C, capacitance is given ,find the frequency and Q factor of the crystal ?

Q. Critical fequency and angle theta is given ;.the max useable frequency is to becalculated

Q. Questions on parabolic reflector anttena's and half wave dipole antenna's design

Q. Ramp signal is generated from integrator .Whether it is a low or high pass filter .?

Q. Calculate FM bandwidth given max modulation fequency FM , max freq deviation , δf and 8 pairs allowable side band component ?

[Back to top](#)

Wipro Infotech Sample Test

[Home](#)

[Back To Wipro Page](#)

1. Add 79H and 86H and tell the contents of flags
2. Scr is used for _____ (ac, dc , both)
3. Push pull amplifier is used to remove which harmonics (even , odd , both)
4. PAM is demodulated using ____ (low pass filter , high pass filter)
5. 16k memory is needed. How many chips with 12 address buses and 4 data buses are needed.
6. AM wave is detected using _____ detector
7. Which flip flop is used for shift registers
8. Program counter does what ____ (stores a memory address, address of the present instruction)
9. In a bistable multivibrator communication capacitor is used for _____ (speed up response , ac coupling)
10. Totem pole is what?
11. Time constant for an integrator and differentiator should be (small , high etc.)
12. TV waves are ____ (sky waves , space waves etc.)
13. Which configuration has highest i/p imp. (ce , cb , cc)
14. Parabolic antenna with 2degree angle. What is its directivity.
15. Given 10 mhz pe modulation and we got a 100 mhz band.
How many channels can be there.
16. If o/p power is doubled by how much does the sound increase (1db,2db,3db)

[Back to top](#)

Contact Information

[Home](#)

We have been getting lots of requests asking for contact information of Indian IT companies which has prompted us to compile this database. Many IT companies are now involved in direct placements through the net or by mail. These require people looking for jobs to post their resumes to the companies. This database contains information pertinent to this.

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[A - C](#) [D - J](#) [K - Q](#) [R - S](#) [T - Z](#)

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Company Listings (A to C)

[Home](#)

[Back to Search Page](#)

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[A](#) [B](#) [C](#) [>>](#)

[D-J](#) [K-Q](#) [R-S](#) [T-Z](#)

A

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[D-J](#) [K-Q](#) [R-S](#) [T-Z](#)

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Company Listings (D to J)

[Home](#)

[Back to Search Page](#)

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[<<](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) **J** [>>](#)

[A-C](#) [K-Q](#) [R-S](#) [T-Z](#)

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[A-C](#) [K-Q](#) [R-S](#) [T-Z](#)

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Company Listings (K to Q)

[Home](#)

[Back to Search Page](#)

Click on the company name to view its address and contact information.

[<<](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [>>](#)

[A-C](#) [D-J](#) [R-S](#) [T-Z](#)

K

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[A-C](#) [D-J](#) [R-S](#) [T-Z](#)

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Company Listings (R to S)

[Home](#)

[Back to Search Page](#)

Click on the company name to view its address and contact information.

[<<](#) [R](#) [S](#) [>>](#)

[A-C](#) [D-J](#) [K-Q](#) [T-Z](#)

R

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[S.R.Associates](#)

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[Search \(India\) Pvt. Ltd](#)

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[A-C](#) [D-J](#) [K-Q](#) [T-Z](#)

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Company Listings (T to Z)

[Home](#)

[Back to Search Page](#)

Click on the company name to view its address and contact information.

[<<](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

[A-C](#) [D-J](#) [K-Q](#) [R-S](#)

T

[Tangerine Geoscience](#)

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U

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[Whitestar Software Ltd.](#)

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[Wipro Infotech\(Chennai\)](#)

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X

[X-Vision Software](#)

Z

[Zelos systems](#)

[Zen Soft Solutions](#)

[Zenith Computers Ltd.](#)

[Zensar\(Formerly ICIL\)](#)

[A-C](#) [D-J](#) [K-Q](#) [R-S](#)

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[Home](#)

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