

## WIPRO PLACEMENT PAPER AND EXPERIENCE

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) 879Ans. (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,bAns. (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 the theseAns. (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 aboveAns. (d)

38. If  $0\sim P[\log \sin x]dx=k$ , then the value of  $0\sim P/4[\log(1 + \tan x)]dx$ , where P

stands for  $p_i$ , 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)  $2/b = 1/p + 1/q$  (b)  $2/b = 1/p - 1/q$  (c)  $2 = a/p - c/q$  (d) None of the above Ans. (a)

40. A solution of  $\text{KMnO}_4$  is reduced to  $\text{MnO}_2$ . 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  $-1/2$  ns. (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 5 km to the right and then travels 15 km toward the right and finally travels 5 km 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 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) Left justifying an integer

(d) Right justifying an integer Ans. (c)

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) 481Ans. (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) 45Ans. (a)

29. How long will a train 100m long traveling at 72kmph take to overtake another train

200m long traveling at 54kmph

(a) 70sec(b) 1min(c) 1 min 15 sec(d) 55 secAns. (b)

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 aboveAns. (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 identical.

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)

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

If B is selected then who will be the remaining 4 members ?

If C is selected, Z and \_\_\_ cannot be selected?

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.  $\int \frac{(2x-3)}{(x^2+x+1)^2} dx$  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 ?

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 ?

33. Network scheme defines

a.) one to one b.) many to many c.) one to ,many ?

Q34. A person wants to measure the length of a rod. First he measures with

standing ideally then he measures by moving parallel to the rod

(a) the length will decrease in second case (b) length will be same

(c) length will increase in the second case.

Q What sorting algorithms have their best and worst case times equal ?

Ans.  $O(n \log n)$  for mergesort and heap sort

Q. What page replacement algorithm 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 quantum 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.

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

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29. How long will a train 100m long traveling at 72kmph take to overtake another train

200m long traveling at 54kmph

(a) 70sec(b) 1min(c) 1 min 15 sec(d) 55 secAns. (b)

Q8. Seven different toys are distributed among 3 children how many different ways are possible?

(a)  ${}^7C_3$

(b)  ${}^7P_3$

(c)  ${}^3P_7$

(d)  ${}^7P_3$

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.  $\frac{1}{6}$

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)

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)

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.

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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 ?

Q40. Find sum of  $3 + 5/(1+22) + 7/(1 + 22 + 32) + \dots$

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.

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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.

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an instruction involving three operands and one operator needs maximum of  $3m+n$  bits

Ans.  $3m + n$

Q. In round robin scheduling, if time quantum is too large then it degenerates to

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Q. What is network schema?

Q. Packet Burst is \_\_\_\_\_

Q. Picard's method uses \_\_\_\_\_?

Ans. Successive Differentiation.

1. What is the bit?

2. One that connects different networks?

a) Routers b) bridges c) Gateways d) Repeaters

3. type of main to accept command line argument?

4. print syntax :

5. Not a primitive data structure.

6. Tree to heap conversion

7. CHAIR is decoded as EGCHT. then TABLE is decoded as .....

8. 8, 15, 9, 14, 9, 13, \_\_\_\_\_

9. Odd man out: handle, cycle, chain, break

10. Entice, Allure, lure, ....

11. Medium resolution coordinates (0,0) to (199,...)

12. words in barrons odd man out a lot.

13. Jumbled

1) John weighs twice as much as Marcia. Marcia's weight is 60% of Bob's weight. Dave weighs 50% of Lee's weight.

190% of John's weight. Which of these 5 persons weighs the least?

A) Bob B) Dave C) John D) Lee E) Marcia

Ans) E

2) A trip takes 6 hours to complete. After traveling  $\frac{1}{4}$  of an hour,  $1\frac{3}{8}$  hours, and  $2\frac{1}{3}$  hours, how much time does need to complete the trip?

3)  $2\frac{1}{12}$  hours

a)  $2\frac{1}{12}$  hours



b) 2 hours, 2 1/2 minutes

c) 2 hours, 5 minutes

d) 2 1/8 hours

ANS) B

3) It takes 30 days to fill a laboratory dish with bacteria. If the size of the bacteria doubles each day, how long did it take for the bacteria to fill one half of dish?

Ans) D ( 29 days)

4) A car wash can wash 8 cars in 18 minutes. At this rate, how many cars can the car wash wash in 3 hours?

ANS) C ( 80)

5) If the ratio of the areas of 2 squares is 2:1, then the ratio of the perimeters of the squares is

ANS) C (  $\sqrt{2}$ :1 )

6) There are three types of tickets available for a concert: orchestra, which cost \$12 each; balcony, which cost \$9 each; and box, which cost \$25 each. There were P orchestra tickets, B balcony tickets, and R box tickets sold for the concert. Which of the following expressions gives the percentage of ticket

proceeds due to the sale of orchestra tickets?

Ans)  $B \ 100 \times 12P / (12P + 9B + 25R)$

7). In a survey of town of Wasco, it was found that 65% of the people surveyed watched the news on television, 40% read newspaper, and 25% read a newspaper and watched the news on television. What percent of the people

surveyed neither watched the news on the television nor read a newspaper?.

Ans: (E) 20%

8). City B is 5 miles east of City A. City C is 10 miles southeast of City

B. Which of the following is the closest to the distance from City A to City C?

Ans: (D) 14 miles

9). If the area of a square increases by 69%, then the side of the square increased by

Ans: (B) 30%

10). There are 30 socks in a drawer. 60% of the socks are red and the rest are blue. What is the minimum number

of socks that must be taken from the drawer without looking in order

to be certain that atleast two blue socks

have been chosen?

Ans: (E) 20

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1) problem on stock, face value, brokerage 4 questions see RS Agrawal,  
edition 1998, 454page,  
tabulation(ex 5) loan disbusrense by 5 banks 6 questions are intermixed.

2) Averages-7( 124page of RS AGrawal) problem on example 3 problem on age

3) page-291- 16th, simple interest-2.5%

4) problem on calculation of cost price, given market price discount on  
ANS) 270

5) frequency of the letter in give strings

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Reasoning:

- 1) problem on series non verbal series around -12 questions
- 2) problem on direction test
- 3) problem on logical venn diagrams - 10 questions refer test of reasoning

Agrawal page 239

- 4) blood relations problem ans) Nephew

Technical

Q) Which is not a Relational Operator?

a) !=

b) >

c) <

d) +

Q) Where is LINUX being developed?

a) US

b) UK

c) Finland

d) France

Q) Which is not an OS?

a) Win 3.1

b) Win 95

c) Win 98

d) Win 2000

Q) Which is heart of all Software Activity?

a) Database

b) OS

c) Memory

d) Application

Q) What is PROM?

Programmable Read On Memory

Q) What is Tally?

Accounting package

Q) What would be consequence if Processing Speed is doubled?

Execution time of double the job will be done in the same time as in original speed.

Q) Where does the emulation of Terminal occurs?

a) Transport Layer

b) Application Layer

c) Network Layer

d) Session Layer

Q) What is excess-3 code of 15?

There were only 2 Qs on the output of C program, 1 wrt binary tree. This

section can be solved in less than 15

minutes.

## TECHINICAL INTERVIEW

OS – draw architecture of OS

LINUX/UNIX – search a pattern, find all file with common names, so on

JAVA – Inheritance with a pgm, why it is used and how classes have to implement it.

DBMS – DDL -?, DML -?, SQL – create table, alterations and so on

Data Structures – Linked List, Double Linked List

C++ - OOPS concepts, Overloading operations

C – pointers

1) STAR : CLUSTER:: ? :?

a) Orange : rind b) ???????? c) trees : clump d) mirror : reflection

2) GIBBLE : SENSE

-----  
3) GAUFFAW : LAUGH

a) Sneeze : cough b) Whimper : cry .....

c) ????????????????

4) PISTON : CYLINDER::?:?

a) SHAFT: ELEVATOR b) BULLET: REVOLVER c)???? d)???

#### ANALYTICAL SECTION :

This section was really easy and almost as clear as water for any person preparing for CAT. Every question had four options from which we had to choose the correct answer. Some of the questions were :

1) A,B,C,D,E ,F are to be given adjacent rooms .The rooms don't have complete walls between them rather sound, smoke can easily get through from one to another as there are gaps over a wall for free exchange of air. Miss C the head is allotted room no 5 as wished by her. Miss E needs a telephone for regular communication. Mr A & Mr B prefer to have adjacent rooms. Mr B,C,D are chain smokers. Miss C is allergic to cigarette smoke.



a) The correct order of placement of rooms is .....four options were given.

b) Which slot is best for Mr A ?

2) A doctor is supposed to see his patients at 9.00, 10.00, 11.00, 1.00 PM, 2.00 PM, 3.00 PM. Rajiv, Mark, Mathew, Hassan, Priya, Reni are the patients. Hassan is scheduled to be seen in early afternoon. Priya should be seen earlier in the day than Reni. Other such conditions were given and you needed to find based on the given conditions that how many such combinations are possible.

3) In a film festival Amitabh, SRK, Kamal hassan, Hrithik and Subhash Ghai, Maniratnam and Yash Chopra are available as judges. A team of three is to be sent. The team must contain atleast one actor and one director. If SRK is selected Kamal Hassan should also be selected and vice versa, If Amitabh is selected Subhash Ghai cannot be selected. If Hrithik is selected Maniratnam is also selected and vice versa. What should be the team if Amitabh is selected ? Four options..

4)  $H = A + B - R$ ,  $F = H + I$ ,  $T = F + A - C + D$ ,  $S = T/2$ ,  $R = A * S$ ; If F is to be derived what is also needed to be derived ?

a) S b) Q c) R d) T

5) A team of at least three people is to be constituted for Mayor of a village for representation in a trade fair. One man, one woman, two boys, three girls are available. All three males cannot be selected, all four females cannot be selected. The team should contain at least one elder. What is the possible configuration that exactly sums up the formation of team :

a) three girls , b) two boys and the lady c) the man, woman , one boy, one girl d) two boys, woman and a girl.

6) A series of drama is to be arranged on all the five days of the week. Monday to Friday. Drama contains fiction, romance, horror, comedy, tragedy. Horror cannot immediately precede romance , fiction should be scheduled earlier than romance , comedy should come after tragedy. If Horror is arranged on Friday then what should be the sequence of the dramas.(NB there may have been other conditions in this examples which I presently don't remember )

7) Three ice creams are to be made available every day by the college canteen. The IC available are strawberry, butterscotch,vanilla,choco, mango, choco-vanilla, pineapple. Each day should have ice creams which was also present day before. All the icecreams can be repeated only thrice during the entire week .IF choco, vanilla ,straw berry is given on Wednesday . What should be given on Thursday ... four options. The question probably has some data missing. Check it out.

8) A team is to be selected from the hockey players available from the circuit. The selection team would require atleast four people. There are three coaches A,B,C and three selectors D,E,F available. But there schedule do not match . A cannot come if D is selected. If C is selected F should also be selected. If E is selected B should not be selected. What is the team?

Among the above two questions were repeated giving different names that makes it 10 questions which I have provided you. I am sorry dear I don't remember the other 5 questions. I had correctly answered almost 14 in this section.

#### TECHNICAL SECTION:

The section was too hard for core branches but tooooooooooo easy for IT/CSE and medium for ECE. Some of the questions were :

1) full form of URL ? a) universal resource locator b) uniform resource locator c)none of these d) unidentified random locator.

2) CDROM access is a) RANDOM b) SEMI RANDOM 3) SEQUENTIAL 4) ?????????/

3) Total time spent by process...waiting in queue, execution etc

4) resonse time..of process.

5) what is the function of shell?

a) Interpreter b) command interpreter c) interface d) /?????????

6) Which is a command interpreter ?

a) Shell b) Kernel c)??? d)None of these

7) main()

{

printf("%c","abcdef"[4]);

}

what is the output ? a) abcdef b) d c) e d) ERROR.

8) main()

{ char dummy[20]; scanf("%[^a]",dummy);

printf("%s", dummy); }

what will it do?

a) ERROR b) take characters till ctrl z is pressed c) take upto 19 characters d) None of These

9) How are objects in cpp passed ?

a) By value b) By reference

10) If the ethernet card is removed .

a) IP address will change b) MAC address will change c) ????

11) Operation of queue a) FIFO b) LIFO c) FILO d) None of these

12) Static member of a class is a) class specific b) Object specific c) Referenced by using the scope resolution operator d) a & c

13) TCP is a) connection oriented b) connection less c) god only knows d) None of these

14) How is data send by IP layer?

a) as frames b) as packets c) as datagrams d) None of these

15) If Link list is used to implement a stack what operations should be

implemented :

a) insert front, delete front b) insert front , delete rear c) insert rear, delete front d) None of these

16) Link list is implemented as a structure (data, link \*), How is pointer moved to the next node , cursor points to the present node.

a) cursor = cursor->link, b) cursor ++ c) ++ cursor d) None of these.

17) How is memory allocated by new ?

a) In a heap b) in a stack b) both a & b c) None of these.

Rest of the questions are at large out in the blue.... perform a quicksort and then do a worst case binary search to get them...

I could answer correctly about 16 questions in this section.

TECHNICAL INTERVIEW :

The interview was to some extent a bit tough. For others the interview was over in 30 min but in my case I had to give an 1 hr straight interview, that was because of me only as I had explained the interviewer my project thoroughly.. Initially the interviewer took a CPP book of

Balaguruswamy and asked me 20 CPP questions at a stretch, I could answer about 16 of them.

Some of the questions were :

- 1) Difference between structure and class.
- 2) How to resolve ambiguity in multiple inheritance ?
- 3) What is static and dynamic binding in C ?
- 4) What is the difference between structure and array?
- 5) Difference between calloc and malloc & realloc?
- 6) What is static class and static member function?
- 7) What is pointer to a pointer? How it is declared and how is it accessed?
- 8) What is the difference between function overriding and overloading ?
- 9) What is the scope of a variable ?
- 10) What is the difference between C & C++ ?

11) Some questions on templates and exceptions.

12) What is stream ? How is it opened and describe file handling in CPP?

Others I don't remember..

Some questions related to Hard Disc :What is a hdd? How is a file accessed from the hdd? Why isn't it used in place of a RAM ? What is RAID describe its basic structure ? . Where is the file information stored on the hard disk ? What is FAT ? How are files physically arranged on the hard disc?

What is JVM, what is BYTE CODE ? What is multithreading ? How can it be implemented using C, write a program to describe it? What is the complexity of radix sort and how is it determined? A sequence of 15 numbers was to be sorted using heap sort. (He stopped me after the 3rd iteration).

Some questions related to JavaScript, dynamic HTML, static HTML, ASP, .NET

A query on natural join in SQL, what is the need of normalization ? What is data inconsistency and redundancy? What is the basic difference between file systems and database systems? What are triggers and assertions in SQL? How can you use C to connect with Oracle SQL database? (Using Oracle 8i PRO C/C++ precompiler )A complicated query on a trigger. (which I couldn't ans).

What is fork system call? How is a child process called and what happens to the parent ? In C what is spawnv () function, describe its execution. How



can you use C for writing assembly language programs ?

If you have done any project then try to bring the discussion towards it. I was interviewed on the project for about 20 min and I kept on explaining till he took up the HR form and signed it!!!! The interviewer was very impressed with my technical knowledge and gave his feedback to the HR interviewer as "Very Confident & sound technical skills". (I had overlooked the remark when he was writing it !!!)

HR INTERVIEW :

I was initially asked to describe myself. Since I had presented four papers in different places in India I took his attention towards it by telling that one of my hobbies is public presentation, and I supported it with example . He asked me about each and every paper and I took 45 min to explain him all the papers. Then he asked whether I wanted to know anything about WIPRO. I asked him around 11 - 12 questions and he was pretty impressed. The trick was to just to nod ur head and frame the next question in line while he was explaining one question.

Some of the questions which I asked were :

1) WIPRO has undertaken a project named " MOBIO" it deals with biometrics. Since our minor project is on fingerprint recognition I would like to know something about MOBIO.

2) After gaining the billion dollar status Mr Azim Premjee said that appreciation of rupee is a concern. What should be the possible steps so that it no more remains a concern?

3) U have diversified from soaps to software as well as maintained a constant growth rate. What is the secret of ur success?

4) The work culture at WIPRO is great. How do u maintain it?

5) How do u allocate projects among ur employees?

6) How do u select employees for foreign duty?

7) What is six sigma strategy and how do u implement it?

8) In the expression "WIPRO is a CMMi company" , what does 'i' signify?

9) Is SAP associated with you someway ?

10) Do you have plans to design a  $\mu$ p better than Pentium 4? (They were the first in India to develop 8086 chip at IISc Bangalore , so I took this chance of asking him the silly question!!!)

And others.....

Then finally he asked if I had any preference regarding place of posting and whether I had any problems signing the bond of 15 months ? They are providing a salary of 18,000/- including perks to CS/IT/ECE And 17,000/- to core branches. Training is at Bangalore and is of three months then permanent placement

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  $ax+bx+c=0$  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 the 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  $-1 \sim 2[|2-x|]dx$ , ie integration of the function  $|2-x|$  over the interval -1 to 2.

- (a) 0
- (b) 1
- (c) 2
- (d) None of the above

Ans. (d)

38. If  $\int_0^P [\log \sin x] dx = k$ , then the value of  $\int_0^{P/4} [\log(1 + \tan x)] dx$ , where  $P$  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)

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) Left justifying an integer

(d) Right justifying an integer

Ans. (c)

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)

. If heart is coded as jokes then what is TABLE.(1 ques)

2. Arrange the sentences given below to make sense.(about 8 ques)

3. A man started walking towards south.After 3km he turned his left and walked 2km.In what dir he is

now.(ans:South east).

4 .Analogy questions(about 8)-synonym and antonym.

Eg:mealymouthed,Aggravate,Alleviate etc.

5.Find in which part of the sentence is error.(Choices are diff parts of

the sentence) (about 8 ques).

6.struct te

```
{
```

```
int i;
```

```
float j;
```

```
char c[25];
```

```
};
```

```
p={"TIGER"}
```

```
printf("%d %f",i,j);
```

Ans:0 0.000000

7.Two more C questions which are very easy.(follow Test ur C skills).

8.Two questions from Comp Networks(only basics like Layers.)

9.One question from Operating system.(easy for Cse students)

10.No quants at all.So need not prepare. Prepare for Logical reasoning

1.antonym of PARSIMONIOUS:

a.

b.generous

c.

d.

ans.b

2.to arrange sentences to form a logical paragraph

3.If MARCH is coded as HCRAM ,then ELBAC is coded as

a.TABLE

b.CABLE

c..

d... ans : b Freshersworld.com

4. Two clocks A & B..B falls by half a minute every hour while A is correct. Both of them show the correct reading

at 8:00AM .If the time shown by clock B is 1:57 P.M., what is the time shown by clock A?

a.3:00A.M

b.3:00PM

c.2:00PM

d.2:00A.M

5. For deadlock to occur what are the conditions which are necessary?

a.mutual exclusion

b. hold & wait without ...emption c.circular .... d.all of the above

6.analogy ...TADPOLE:FROG a.tumble:fall

b.swell:pain

c... d...

7.chose the critical word: PERSISTENT,FREQUENTLY,CONSTANT,(some more words were given, don't

rememberJ)... a.often

b.perpetual

c.

d.

8.Fill in the blanks with appropriate word/words:

She was not chosen to be the secretary as she was not \_\_\_\_\_

a.vivacious

b... c.versatile

d....

9.select sentences so that the third statement can be concluded from the first two... 10.Fill in the blanks with

appropriate word/words:



11. which of the following is not a "dynamic data structure" a. tree

b. binary ..

c. array

d .none of the above

12. Question from congestion control topic:

Ans: source quench.

13. Interchanging + and / also 2 and 3 , which of the following expressions are true?

14. Interchanging + & / also 10 & 5, which of the following expressions are true?

15. about doubly linked list : to delete a node to the right of p , which of the following is true?

a.  $p \rightarrow \text{right} = p \rightarrow \text{right} \rightarrow \text{right}; p \rightarrow \text{right} \rightarrow \text{right} \rightarrow \text{left} = \dots$  b.

c.

d. none of the above

16. A long puzzle about 4 people Lewis, Frank ,...going to meet 4 people : insurance agent, consultant, money lender,

share broker in a building with 4 floors (G+3 floors). Lewis meets share broker who is above money lender, money

lender is not on 1st floor. Frank meets insurance agent who is below consultant.. Some more conditions were

given...which floor is the share broker ?

- a.G floor
- b.1st floor
- c.2nd floor
- d.3rd floor

ans: 3rd floor (check out the answer)

17. An island where the people speak 1 sentence truth & other is false..3 people on island: GOL , TOL ,BOL.. One of

them was carrying a snake on his shoulder. 2 sentences by each were given..who is the snake charmer?

Ans:BOL (check it out)

18.compiler is used to convert \_\_\_\_\_ to \_\_\_\_\_

- a.low level language , high level language
- b.high level language ,low level language
- c.both a & b
- d.dependent on the compiler.

19.the best case & worst case merge sort algorithm (I don't remember the q properly) a. $O(n)$ , $O(\log n)$ ..(some ans os

this sort were givenJ)

20. void main()

{

char \*p=""s"Hello"; printf("%s",p);

}

what is the o/p?

a.sHello

b.s

c.Hello

d.error

21. Tcp/ip is

a)connectionless

b)connection oriented

c)both a & b

d)none

ans b

22.Process has memory divided into how many parts?

a.7

b.3

c.10

d.memory is undivided

23.one more question on correcting the error in the given sentence

24.given 4 words, to find out the odd one out..

....: discord: ....: ....

25.small passage was given..the inference from the passage is ?

9. 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.  $1/6$

10. 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)

11. 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)

12. There are two sections in a question paper each contain five questions.

A students 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)

13. 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)

14. The sum of the series  $1 + 1(1+1/n) + 3(1+1/n)^2 + \dots$  is equal to?

Ans.  $n^2$

15. 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)

16. 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)

17. If  $x$  approaches infinity, then  $(\frac{d}{dx} \frac{1}{x}) / (\frac{d^2}{dx^2} \frac{1}{x})$  is ?

(a) 1

(b) 0

(c) -1

(d) 2

Ans. (a)

18. If  $f(x) = \frac{1 - \cos(1 - \cos x)}{x^4}$  is continuous at  $f(0)$  then what is  $x$

(a) 1

(b) 0

(c)  $1/4$

(d)  $-1/4$

Ans. (c)

19. 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)

20. Period of  $\sin((2t + 3) / 6 \pi)$

(a)  $6\pi$

(b)  $6\pi^2$

(c)  $3\pi$

Ans. (b)

21 - 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

If B is selected then who will be the remaining 4 members ?

If C is selected, Z and \_\_\_ cannot be selected?

D is always selected if \_\_\_ is selected?

24. 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.  $\int \frac{(2x-3)}{(x^2+x+1)^2} dx$  is ?

26. 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

27. If the equation  $x^2 - 3x + a = 0$  has the roots (0,1) then value of a is ?

28. A and B's temperature are  $10^\circ\text{C}$  and  $20^\circ\text{C}$  having same surface , then their ratio of rate of emmissions is ?

29. An atomic particle exists and has a particlular 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

30. Which of the following exchanges positive ions

(a).  $\text{Cl}^-$

(b)  $\text{NH}_2^-$

(c)  $\text{CH}_2$

Ans. (b)

31. 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

32. The best tool for editing a graphic image is ?

33. Network scheme defines

- a.)one to one
- b.) many to many
- c.) one to ,many ?

34. 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

1. Find the odd one out

a) entice,lure,allure,alarm.select the odd one out.

b) evince,press,exort,spur.

2.synonyms(majority of the questions)

Eg: Vivacious.

3. Analogies. eg: If symphony : compose then

a) playwright : play

b) child : mother

4. Four sentences will be given. For example, a)....

b)....c)....d).... You have to arrange them in such a way that they form a meaningful paragraph.

5. Question related to alphabets.

A F G T

E G W O +

-----

1 2 3 0

-----

the above is just an example and not a question appeared in the test.

6. Antonyms. Placate

a) abet

b) enrage

c) witness

d).....

17. Questions from 'C' language (only 2 to 3 of them)

```
int x = 10, y = 15, z = 5;
```

```
int i;
```

```
i = x < y < z;
```

```
printf("%d",i)
```

Be careful while filling in the resume given by them. The columns in the resume are, for example

1. Where do you think you have to improve yourself?

2. Why have you chosen WIPRO?

3. Your strengths and weaknesses.

HR questions will be from your resume.

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  $-\frac{1}{2}$

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 5 km to the right and then travels 15 km toward

the right and finally travels 5 km 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)

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)

It went for 1 hour...just me....very lengthy.

1) Asked me about my project.

2) Asked me about my Engg subjects..OS Data Structures ...C C++ Unix .

3) What are the OS Components ?

4) Draw the various modules of the OS.

- 5) What is a Thread.
- 6) What are the advantages of threads.
- 7) What are the different types of scheduling?
- 8) Process Synchronization.
- 9) Semaphores Monitors.
- 10) Write the code for semaphore.
- 11) Benady's Anomaly.
- 12) Memory Management
- 13) Polymorphism in C++
- 14) Output of a C Program (Test ur C Skills type)
- 15) Use of static.
- 16) Ostrich Algorithm..( Didn't know)
- 17) What are NP Hard Problems.

18) Join two linked lists.

19) Various Sorting algorithms.

20) Trees Binary search tree etc

1] The pole is 18 feet high 2] the man is 12 feet from the pole Ans C

33 Working at a constant rate and by himself it takes worker Dilip 3 hours to fill up a ditch with sand. How long it

take for worker Vijay to fill up the same ditch working by himself 1] working together but at the same time

Sidip and Vijay can fill in the ditch in 1 hour 52 and half minutes 2] In any length of time worker Vijay fills in only

60% as much as worker Dilip does in the same time Ans D

34. Train T leaves town A for town B and travels at a constant rate of speed A. At the same time train A leaves town

B for town A and also travels at a constant rate of speed. Town C is between A and B which train is travelling

faster? Towns A, B, C lie on a straight line 1] Train S arrives at town C

before train T 2] C is closer to A than to

B Ans C FOR QUESTION 31 TO 34 A..If you can get the answer from 1 alone  
but not from 2 alone B if

you can get the answer from 2 alone but not from 1 alone C if you  
can get the answer from 1 & 2 together

although neither statement by itself suffices D if statement 1 alone  
suffices and statement 2 alone suffices

35. A store has a parking lot which contains 70 parking spaces. Each row in  
the parking lot contains the same

number of parking spaces. How many rows are there? (in GMAT) Ans D 10

36. What is the maximum number of points of intersection of two circles which  
have unequal radii

FOR QUESTIONS 37 TO 38 A. only 1 follows B only 2 follows C both 1 and 2  
follows D either 1 or 2

follows

37 i) all dogs are trees

ii) Trees provide wood. Conclusion 1. wood is used as fuel. Ans B



2. dogs provide wood38. i) If a bee one touched one it stings  
ii) He touched the bee. conclusion 1. the bee definitely stings him  
2. it may not sting him Ans A

39 A cooperative housing finance society lends money @ 12% per annum and  
recovers the capital and interest in 80

equated quarterly installments of Rs 33.11 per Rs 1000 of loan the  
amount of capital repaid at the first

installment will be

Ans 36.11 (may be) 40 to 42 a passage very easy I am giving answers

40 .(B) X,Z,D and B 41 ( B) X Z and D 42 ( D) both B and D for the  
question

43 in a certain code language FADENOCMT is coded as 345687921 based on the  
code language given, 21, 26 is

53. Sometimes the object module produced by a compiler includes information  
mapping all source program

names to their address the most likely purpose of this information is

17. MOON

SOON

NOON

-----

JUNE FIND JUNE? -----ANS - 9326

18. a,b,C,D HAS 4 CARDS IN FRONT OF THEM. and the colour of the cards

on 2 faces are different. 2 red

2green, 2 blue.

a says- yellow or blue

b says- neither yellow nor blue

c says blue or yellow

d says- blue or green if the open face colour is the order

red, green,red,blue. find the hidden colour,

if 2 of them says lie.-----red green red green

yellow blue yellow blue

19. A's wife died .he is living with his niece.B is a widow and living

with her daughter and C is living with her

wife.C's wife suggested that they should live together.each

member of the group should contribute 25/- and

the rest should be distributed equally .if the monthly expense was

rs 92/- and each got whole sum of money

(no fraction) after cutting their expenses what is amount each

will get? ----rs 2/-

20. A man leaves home for his office in time according to his watch but

in the office he finds that he is not on time

and checks his watch.he finds that his watch shows one hour when

actually 65 min has been passed say

whether his watch loses or gain time and by what amount per hour?

4 min 55sec

21. Three people A,B,C live in a place , their occupations are

policeman , fireman , teacher. out of the five

conditions conditions , only two are true

(a) A is the neighbour of teacher.

(b) B is the neighbour of teacher.

(c) policeman and fireman are neighbour of C.

(d) all of them are neighbour of each other.

(e) B is the neighbour of fireman.

find their occupation of a,b,c.

ans. a-policeman

b-fireman

c-teacher.

Analogies were also easy like

ANNEX: BUILDING::? : ?

HEAR: INAUDIBLE :: ? : ?

Go thro GRE Barrons and try answering some questions to gain confidence.

the cut-off for this section was 6. (This was not told by them, I came to

know it elsewhere)

## Aptitude

This section consisted of only Logical and Analytical Reasoning. Not even a single QUANT problem. There were about 25Q of reasoning and 5Q of inference type. Reasoning Q had 5-6 lines to read and answer only 1 Q based on it.

## Technical

This was the easiest coz they were very simple Qs, not very Technical at all.

Q) Which is not a Relational Operator?

a) !=

b) >

c) <

d) +

Q) Where is LINUX being developed?

a) US

b) UK

c) Finland

d) France

Q) Which is not an OS?

a) Win 3.1

b) Win 95

c) Win 98

d) Win 2000

Q) Which is heart of all Software Activity?

a) Database

b) OS

c) Memory

d) Application

Q) What is PROM?

Programmable Read On Memory

Q) What is Tally?

Accounting package

Q) What would be consequence if Processing Speed is doubled?

Execution time of double the job will be done in the same time as in original speed.

Q) Where does the emulation of Terminal occurs?

a) Transport Layer

b) Application Layer

c) Network Layer

d) Session Layer

Q) What is excess-3 code of 15?

There were only 2 Qs on the output of C program, 1 wrt binary tree. This section can be solved in less than 15 minutes. the cut-off for this section was 17. (This was not told by them, I came to know it elsewhere) I cleared this round with 8, 17 & 22 in the sections.

## TECHINICAL INTERVIEW

It was for abt 45 minutes, Qs on

OS – draw architecture of OS

LINUX/UNIX – search a pattern, find all file with common names, so on

JAVA – Inheritance with a pgm, why it is used and how classes have to implement it.

DBMS – DDL -?, DML -?, SQL – create table, alterations and so on

Data Structures – Linked List, Double Linked List

C++ - OOPS concepts, Overloading operations

C – pointers

Since I had many mini and major projects in our curriculum I was asked Qs

on them.

Finally I was asked Qs on my Final Sem project which I did at Wipro.

If ur not confident in answering any subject let the interviewer know that u can probably manage or u cannot. This is bcoz they will c how confident ur in answering what u know. Don't fool around with them coz they will be knowing much more than what we know.the cut-off for this