

IBM : Global Sample Paper

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

<i>May</i>	55	75	85
<i>June</i>	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) $*/(a,@(*(a,b)))$

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

IBM GLOBAL SERVICES

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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 they already have to each of them. then, B gave C and A the same no. of marbles they have, then C gave A and B the same no. of marbles they have. At the end A,B, and C have equal no. of marbles.

(i) If x,y,z are the marbles initially with A,B,C respectively. then the no of marbles B have at the end
(a) $2(x-y-z)$ (b) $4(x-y-z)$ etc.

(ii) If the total no. of marbles are 72, then the no. of marbles with A at the starting
a. 20 b. 30 c. 32

3. If a car starts from A towards B with some velocity due to some problem in the engine after travelling 30km. If the car goes with $\frac{4}{5}$ th of its actual velocity the car reaches B 45min 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 buy 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.

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ex: hammer : carpenter ::

☐ B

knife : butcher.

☐ OB ☐

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i) During this period which share has undergone max 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, to get max profit when these shares should be sold?

v) ?

7. In a computer institute 9 languages can taught. The module is of 6 months duration and only six languages each of one month can be taught. In addition to that BASIC is always there and should be in first month itself

word perfect is to be taught in the preceeding week of word star.

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languages are BASIC, WORD STAR, WORD PERFECT, FORTRAN, COBAL, BINO, FIFO, LOTUS, C

i. Of the following which module is possible based on above conditions.

ii) If word star is in 3rd month , what could be in 6th month.

iii) If COBAL is in the 2nd month and BINO in 6th month are there in addition to the above condition, FORTRAN will be 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.

9. A square plot of some size , at four corners equal squares of some size are cut and is formed as open box. If this open box carries 128ml of oil. What is the size of the plate i.e. side

a.17 b.14 c.13

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 shaded area?

11. two questions on basic angles i.e given a circle, a few chords or diameter is drawn etc.

12. $@(a,b) = (a+b)/2$

$/(a,b) = a.b$

$*(a,b) = ab$, if $a=1$, $b=2$ find

i) $/(a, (@(a,b), *(a,b)))$

ii)

13. $(x\#y) = x+y-xy$

$(x*y) = (x+y)/2$

i) $(x\#y)\#(x*y) < (x\#y)$, which of the below values of x, y will satisfy this equation

ii) $(a*b)\#(b*c) < (a\#b)*(b*c)$, what values of a,b,c satisfy the above.

14. By using the data given below answer the following questions.

B.tech M.sc M.A

male 20

female 80

total 60

some thing similar to that question.

i) 40% of females are B.Techs

- ii) Half of the students are either from B.Techs of M.Sc
- iii) ...
- i. what is the no. of female B.techs
- ii....

don't remember this question , just for an example this has been given .

- 45Q). PS1 pwd
export PS1 results in
- a). your primary prompt being your current directory
 - b). " " and secondary prompts being the current dir
 - c). " " prompt being your home dir
 - d). " " and secondary prompts being the home dir
 - e). None of the above.

- 8Q). 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

- 7Q). In UNIX a file's i-node
- a) is a data structure that defines all specifications
of a file like the file size ,number of lines to a
file ,permissions etc.
 - b).----
 - c). -----
 - d). _ _ _

(ans is -----(a))

- 44Q). The UNIX shell is....
- 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 is (b))

- 48Q).enum number { a=-1, b= 4,c,d,e}
what is the value of e ?

☐B☐

☐OB 7,4,5,15,3

(ans is 7) check again

- 3Q).The very first process created by the kernel that runs
till the kernel process is halted is
- a)init
 - b)getty
 - c)
 - d)
 - e)none
- (Ans is a)

- 47 Q) Result 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 is d)

```

1 Q) What is the result

```

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
(Ans is c)

```

2) 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

4) 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

5) what will the following program do?

```
void main()
{
 int i;
 char a[]="String";
 char *p="New String";
 char *Temp;
 Temp=a;
 a=malloc(strlen(p) + 1);
 strcpy(a,p); //Line no:9//
 p = malloc(strlen(Temp) + 1);
 strcpy(p,Temp);
 printf("(%s, %s)",a,p);
 free(p);
 free(a);
} //Line no 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

6) 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

37) 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



38) 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

39) 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

Ans) c ( check it )

40) 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

41) 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

42) 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

43) 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

46) 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

Ans) b ( check it)

49) 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

50) 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

Aptitude:

part 1 : letter series.

part 2 : figures

part 3 : quantitative

Technical:

Most questions are on Unix and some in C and some in windows 3.1

all questions in Unix are from Kernighan & Pike

~~~~~  
TISL

part 1

it consists of number series. In some institutes alphabetical series is given instead of number series. I am having number series so I am sending that. Please go through the alphabetical tests also.

1. 19,24,20,25,21,26,? ans:22
2. 11,14,12,15,13,16,? ans: 14
3. 10,2,8,2,6,2,? a:4
4. 8,9,11,14,,18,23,? a:29
5. 25,25,22,22,19,19,? a:16
6. 14,2,12,4,10,6,? a:8
7. 7,16,9,15,11,14,? a:13
8. 40,42,39,44,38,46,? a:37
9. 3,18,4,24,5,30,? a:6
10. 18,20,22,20,28,20,? a:22
11. 18,20,10,12,4,6? a:0
12. 7,6,8,5,3,7,? a:4
13. 9,18,21,25,20,? a:30
14. 3,3,4,8,10,36,? a:33
15. 30,28,25,20,34,28,? a:21
16. 4,8,16,32,64,128,? a:256
17. 8,16,24,32,40,48,? a:56
18. 13,11,14,12,15,13,? a:16
19. 6,18,36,108,216,648,? a:1296
20. 4,4,8,8,16,16,? a:32
21. 2,6,18,54,162,486,? a:1458
22. 4,20,35,49,62,74,? a:85
23. 10,18,15,23,20,28,? a:25
24. 4,10,8,14,12,18,? a:16
25. 10,15,12,17,14,10,? a:16

part 2 consists of non-verbal reasoning (figures). So it is impossible for me to send those. (25 questions)

part 3 (quantitative)

1. A clerk multiplied a number by ten when it should have been divided by

ten. The answer he got was 100. What should the answer have been?

Ans. 1

2. If Rs 20/- is available to pay for typing a research report & typist A produces 42 pages and typist B produces 28 pages. How much should typist A receive?

Ans. Rs 12/-

3. The average salary of 3 workers is 95 Rs. per week. If one earns Rs. 115 and second earns Rs. 65 how much is the salary of the 3rd worker.

Ans. 105.

4. A 16 store building has 12000 sq. feet on each floor. Company A rents 7 floors and company B rents 4 floors. What is the number of sq. feet of unrented floor space.

Ans. 60000

5. During a given week a programmer spends  $\frac{1}{4}$  of his time preparing flow chart,  $\frac{3}{8}$  of his time coding and the rest of the time in debugging the programs. If he works 48 hours during the week, how many hours did he spend debugging the program.

Ans. 18.

6. A company installed 36 machines at the beginning of the year. In March they installed 9 additional machines and then disconnected 18 in August. How many were still installed at the end of the year.

Ans. 27

7. A man owns  $\frac{2}{3}$  of the market research bureau business and sells  $\frac{3}{4}$  of his shares for Rs. 75000. What is the value of Business.

Ans. 150000

8. If 12 file cabinets require 18 feet of wall space, how many feet of wall space will 30 cabinets require?

Ans. 45

9. A computer printer produced 176,400 lines in a given day. If the printer was in operation for seven hours during the day, how many lines did it print per minute?

Ans. 420

10. From its total income, a sales company spent Rs. 20,000 for advertising, half of the remainder on commissions and had Rs. 6000 left. What was its total income?

Ans. 32000

11. On Monday a banker processed a batch of cheques, on Tuesday she processed three times as many, and on Wednesday she processed 4000 cheques. In the three days, she processed 16000 cheques. How many did she process on Tuesday?

Ans. 9000

12. The cost of four dozen proof machine ribbons and five dozen accounting machine ribbons was Rs. 160/-. If one dozen accounting machine ribbons cost Rs. 20/-, what is the cost of a dozen proof machine ribbons?

Ans. Rs. 15

13. If a clerk can process 80 cheques in half an hour, how many cheques can she process in a seven and one half hour day?

Ans. 1200

14. In a library, there are two racks with 40 books per rack. On a given day, 30 books were issued. What fraction remained in the racks?

Ans.  $\frac{5}{8}$

15. The average length of three tapes is 6800 feet. None of the tapes is less than 6400 feet. What is the greatest possible length of one of the other tapes?

Ans. 7600

16. A company rented a machine for Rs.700/- a month. Five years later the treasurer calculated that if the company had purchased the machine and paid Rs.100/- monthly maintenance charge, the company would have saved Rs.2000/-. What was the purchase price of the machine?

Ans.Rs.34000

17. Two computers each produced 48000 public utility bills in a day. One computer printed bills at the rate of 9600 an hour and the other at the rate of 7800 an hour. When the first computer finished its run, how many bills did the other computer still have to print?

Ans.9000

18. If a salesman's average is a new order every other week, he will break the office record of the year. However, after 28 weeks, he is six orders behind schedule. In what proportion of the remaining weeks does he have to obtain a new order to break the record?

Ans.3/4

19. On a given day, a bank had 16000 cheques returned by customers. Inspection of the first 800 cheques indicated that 100 of those 800 had errors and were therefore the available immediately for data processing. On this basis, how many cheques would be available immediately for data processing on that day?

Ans.14000

20. A company figured it needed 37.8 sq.feet of carpet for its reception room. To allow for waste, it decided to order 20% more material than needed. Fractional parts of sq.feet cannot be ordered. At Rs.9/- a sq.feet, how much would the carpet cost?

Ans.

a. Rs.324 b) Rs.405 c) Rs.410 d) Rs.414 e) Rs.685

21. A tape manufacturer reduces the price of his heavy duty tape from Rs.30/- to Rs.28/- a reel and the price of a regular tape from Rs.24/- to Rs.23/- a reel. A computing centre normally spends Rs.1440/- a month for tapes and 3/4 of this is for heavy duty tapes. How much will they save a month under the new prices?

Ans.Rs.87

22. In a team of 12 persons, 1/3 are women and 2/3 are men. To obtain a team with 20% women how many men should be hired?

Ans.8

23. The dimensions of a certain machine are 48" X 30" X 52". If the size of the machine is increased proportionately until the sum of its dimensions equals 156", what will be the increase in the shortest side?

Ans. 6"

24. In a certain company, 20% of the men and 40% of the women attended the annual company picnic. If 35% of all the employees are man, what percent of all the employees went to the picnic?

Ans.33%

25. It cost a college Rs.0.70 a copy to produce a Programme for the homecoming football game. If Rs.15,000/- was received for advertisements in the programme, how many copies at Rs.0.50 a copy must be sold to make a profit of Rs.8000/- ?

Ans. 35000

\*\*\*\*\*

In the first section there are 40 question's on letter series.  
Very easy upto 25 and then slightly involved after that again  
last 10questons are easy.

For example:

1. aa , bb, cc, --
2. a,c,e,g,-
- etc.,

\*\*\*\*\*

bye,  
sreedhar.

TATA-IBM few questions extra.

- 1)int i=10;  
printf("%d%d%d",i,i++,++i);  
ans: compiler dependent
- 2)printf("Enter two values a and b:");  
scanf("%d%d",a,b);  
printf("%d+%d=%d",a,b,a+b);  
ans:core dumped
- 3)Question on WM\_SIZE  
ans:WM\_SIZE
- 4)when destroy window what message would display  
ans:WM\_DESTROY
- 5)MS Windows 3.1 about multitasking  
ans:nonpreemptive
- 6)windows 3.1 is  
ans:application
- 7) about switch statement  
ans:16,21
- 8)question paper the first question ans is  
ans:can't be compiled
- 9)about send messages and post messages  
ans: c
- 10)what is the command to initiate the windows  
ans:WinMain

paper

- 1.const char \*  
char \* const  
What is the difference between the above two?.
- 2.In Unix inter process communication take place using?.
- 3.What are the files in /etc directory?.
- 4.About i-node numbers
- 5.Max relaxable permission value without giving write permission to others?.
- 6.About ln(linking)
- 7.A question on until  
until (who |grep mary)  
do  
sleep(60)  
done
- 8.Linkage across directories?.
- 9.process id for kernel process
- 10.very first process created by kernel
- 11.function to repaint a window immediately?.

- 12.Function entry for DLL in win3.1
- 13.win 3.1 is a
- 14.win 3.1 supports which type of multi tasking?.
- 15.Message displayed when a window is destroyed
- 16.About fork()?
- 17.About send message and post message
- 18.Message to limit the size of window
- 19.System call executable binary file into a process
- 20.About GDI object?.
- 21.API used to hide window
- 22.Initialize contents of a dialog?.

The technical comprises of 50 questions on C, Unix and windows.  
The interview for us is on a later date. If the questions come for you also, then intimate me.

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TISL

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I know some 25 questions.

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1. const char \*  
char \* const

What is the difference between the above two?.

2. In Unix inter process communication takes place using?.
3. What are the files in /etc directory?.
4. About i-node numbers
5. Max relaxable permission value without giving write permission to others?.
6. About ln (linking)
7. A question on until
  - until (who |grep mary)
  - do
  - sleep(60)
  - done
8. Linking across directories?.

9. process id for kernel process
10. very first process created by kernel
11. function to repaint a window immediately?.
12. Function entry for DLL in win3.1
13. win 3.1 is a
14. win 3.1 supports which type of multi tasking?.
15. Message displayed when a window is destroyed
16. About fork()?
17. About send message and post message
18. Message to limit the size of window
19. System call executable binary file into a process
20. About GDI object?.
21. API used to hide window
22. Initialize contents of a dialog?.

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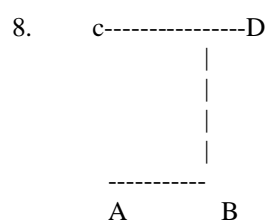
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IBM, Written test, 2000

1. There are 12 persons seated in a room. If one half of the people belong to group A, one third belong to group B and one fourth belong to both the groups. How many don't belong to any group.
2.  $\frac{1}{5}$  is what part of  $\frac{2}{3}$
3. A train passes a point in 20 secs and crosses a bicycle moving in opposite direction with a speed of 8 m/s in 15 secs. What is the length of the train?
4. A freight train starts from a station. After two hours a passenger train travelling with a speed of 60mph. starts from the same station. Both the trains meet after four hours after the departure of the passenger train. What is the speed of the freight train?
5. A tank has a capacity of 3750 cu.m. There are two taps fixed on it, one filling the tank at 800 cu m/min and second tap emptying at a rate of 300 cu m/min. If the two taps are opened successively for one minute each, then after how much time the tank gets completely filled?
6. The contract for painting three houses is given to three people. A can paint each house in 6 days, B in 8 days & C in 12 days. A starts the work & continues for 8 days, B continues the work for 6 days then in how many days C can finish the work?
7. One edge of a square is the centre of a circle with the two sides adjoining the edge of the square becoming the radii of the circle. If the length of the arc described by the two radii (the two sides of the square) is 2 units. What is the perimeter of the square.
8. 

AB is perpendicular to BC, BC perpendicular to CD  
AB=8 cm  
BC=5 cm  
CD=4 cm  
What is the shortest distance from A to D?
9. If 6 squares of equal size are placed side by side to form a rectangle of perimeter 294cm, find the perimeter of each square.
10. What is the length of a parallelepiped of sides 3, 4, 7 cms.
11. Correct definition of pi is
  - a. 3.14
  - b. 3.141257
  - c.  $\frac{22}{7}$
  - d. ratio of circumference and diameter
  - e. none of the above

12. A football team played 60 matches out of which 30% were won by them. If they start winning all the next matches after how many matches will the average winning rate be 50%

13. difference of ages of 2 persons is 9 and difference of squares of the ages is 459. What is the age of the older person.

14. There is a rectangular field of 110x70 cm size. If it is to be fenced such that the fence is placed alternative with a gap of 10cm and the fence should be present at the four corners. taking \$2 per cm of fence. Find the cost of fencing.

15. the figure having one line of symmetry

- a. square
- b. equilateral triangle.
- c. isosceles triangle
- d. rectangle

16. Which is greater?

- a. 0.3
- b.  $(0.3)^{.5}$
- c.  $\frac{2}{5}$
- d.

17. If there are persons named 1 to n. If each person shakes with all other persons whose no. is more than him, then how many handshakes are possible.

18. maximum value of  $3x^2 - 4x + 7$

for travelling from A to C there are three choices

- 1. through a bridge from A to C of 20 miles length having a toll of 75 cents per person
- 2. through a tunnel from A to C of 10 miles length having a toll of 25 cents per person
- 3. a toll free highway from A to B (eastwards) of 20 miles and then B to C (north west) 10 miles

19. which will be most economical?

- bridge
- tunnel
- highway
- none

20. if he wants to reach earliest what will he choose?

21. if the employer of a firm going from A to C deducts some % of his basic salary which he will choose (what factor will influence his preference) bridge with less traffic tunnel cost of gasoline cost of toll on three modes

22. What is the shortest mode of travel from B to C

- bridge
- tunnel
- highway
- none

23. what is the number of multiplications you have to undergo to multiply two 2x2 matrices

24. what is the angle subtended by the hands of a clock when it is quarter past one

25. if a particle is moving in a circle with constant angular velocity then

- a. radial acc. = 0      tangential acc. = 0
- b.  $< 0$                       = 0

c.            =0            <>0  
d.            <>0            <>0

# what does > and >> signify in UNIX?

```
int n;
k=n;
result=1;
while(k>1)
{
 result*=k;
 k--;
```

What does this program do?

- a. calculates the factorial for n<0
- b. calculates the factorial for n>0
- c. b is right if the foll is added

```
if(n<=1)
 result=1;
ans=b
```

#Which one is not an aspect of relational database

- a. tree like structures
- b. records
- c. fields
- d. tables

#if right to left operation is done instead of left to right then find the value of  
7-(16/(3+1)\*2)-4

#what is the difference between Dos in windows and DOS in MS-DOS mode?  
they occupy diff. memory they are same windows can access some special files

#char. of RAM  
finite,temporary and fast

```
main()
{
 int num[6]={2,3,4,18,44,17}
 j=5;
 printf("%d%d",*(num+j),j[num])
}
ans 17 17
```

```
n=5
while(n>1)
{
 for(i=1;i<n;i++)
 product*=i;
 return(product);
}
output=?
ans=junk value
```

#main advantage of using pointers?

ans=pointers can be used to return more than one value from a function

#what is the main aspect of computers over calculators

- a. computers are complex to understand
- b. computers are huge and expensive
- c. more than one person can work on a compu
- d. compu can perform logical calculations as well as arithmetic

## APTITUDE TEST

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missing letter

1).eefgghii- (Ans j)

2)

3)defdefghi- (Ans g)

4)cdexyzfghxyz-(Ans i)

5)defdegde- (h)

6)abczabcyabc- (x)

7)fgbhbjkb- (l)

8)- - - - (Ans is r)

9)aarbsctarb- (s)

10)bccdeefg- (g)

11)efhikl- (n)

12)abccdeffg- (h)

13amnbopc- (q)

14)ttssrqqp- (p)

15)ddffhhjj- (l)

16)mnmnklopokl- (q)

17)cddeeefff- (f)

18)gfed- (c)

19)dfhjl- (n)

20)abcijdefij (g)

21)efgefghefghi- (e)

22)bcbdedfgfhi- (h)

23)aababccdc- (d)

24)ai bcidef- (i)

25)cehl- (q)

26)abdehimn- (s) check again

27)becfdge- (h)

28)agbhc- (i)

29)adhko- (r)

30)efghjklno- (q)

31)aedhg- (k)

32aeibf- (j)

33)zdwgt- (J)

34)zeyijxg- ()find

35)cqreuv- (y)

36)ksjtuh- (v)

37)rsjtuhvw- (f)

38)ieajfbk- (g)

39)hebifej- (g)

40)hjlmiel- (h)

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TOTAL 60 QUE'S 25-PROBLEMS & 35 FIGURES (figure series, we have to find next coming figure)

HERE 13 PROB'S ARE THERS. REMAINING ALSO ALMOST LIKE THIS .

1) A boy multiplied a number with 10 and got 100, instead of dividing it . If he divided it what would be the answer?  
(Ans is 1)

2) If 12 shell cup board requires 18ft of wall space then  
30 " " " " " how much wall space?  
(Ans is 45)

3) The average salary of three employees is 95Rs. per week.  
If one employee earns 115 and other earns 65 rupees.  
how much will third be earn?  
(Ans is 105Rs)

4) A company installed 36 punching machines at the beginning of the year. In the spring they installed 9 additional m/c's

and then discontinued 18 in the fall. How many were still installed at the end of the year?  
(Ans is 9) check

5) During a given week a programmer spends  $\frac{1}{4}$  of his time preparing charts,  $\frac{3}{8}$  of his time for coding, and the rest of his time for debugging the programs. If he had 48 hrs during the week, how many hours did he spend debugging the program?  
(Ans is 18 hrs)

6) A 16-story building has 12000 ft<sup>2</sup> on each floor. Company A rents 7 floors and company B rents 4 floors. What is the number of square feet of unrented floor space?  
(Ans is 60000 sqft)

7) A man owns  $\frac{2}{3}$  of a computer service bureau business and sells  $\frac{3}{4}$  of his share for \$75000. What is the value of the business?  
(Ans is 150,000)

8) A computer printer produces 176400 lines in a given day. If the printer was in operation for 7 hrs during the day, how many lines did it print per minute?  
(Ans is 420)

9) From its total income a company spent \$20000 for advertising half of the remainder on salaries and had \$6000 left. What was the total income?  
(Ans is \$32000)

10) In a certain company 20% of the men and 40% of the women attended the annual company picnic. If 35% of all the employees are men, what % of all the employees went to the picnic?  
(Ans is 33%)

11) The dimensions of certain IBM m/c are 48" × 30". If the size of the m/c is increased proportionally until the sum of its dimensions equals to 156". What will be the increase in the shortest side?  
(Ans is 30)

12) If a card punch operator can process 80 cards in half an hour, how many cards can this process in 7 hr 30 min?  
(Ans is 1200)

13) In a computer tape library there are two racks with 40 tapes per rack. In a given day 30 tapes are in use. What fraction remains in the rack?  
(Ans is  $\frac{5}{8}$ )  
cchim01%

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