

TISL -----> PAPER MODEL

Two parts.

Part A: aptitude (100 Que) 100 marks
 1 to 40 letter series
 41 to 65 problems
 66 to 100 figures
 Part B: comp knowledge test
 50 QUE 50 marks

TISL (TATA-IBM) PAPER

Q9). what will be the result of executing following program

```
main
{
char *x="new";
char *y="dictionary";
char *t;
void swap (char * , char *);
swap (x,y);
printf("(s, %s)",x,y);

char *t;
t=x;
x=y;
y=t;
printf("(s, %s)",x,y);
}
void swap (char *x,char *y)
{
char *t;
y=x;
x=y;
y=t;
}
```

- a). (New,Dictionary) - (New,Dictionary)
 - b). (Dictionary,New) - (New,Dictionary)
 - c). (New,Dictionary) - (Dictionary,New)
 - d). (Dictionary,New) - (Dictionary,New)
 - e). None of the above
- (Ans will be b or e) check

Q10). If a directory contains public files (can be valied and used by any one) which should not be altered ,the most liberal permissions that can be given to the directory is

- a) 755
- b) 777
- c) 757
- d) 775
- e) None of the above

(Ans a)

- 11) what would the following program results in
main()

```
{
char p[]="string";
char t;
int i,j;
for(i=0,j=strlen(p);i<j;i++)
{
t=p[i];
p[i]=p[j-i];
p[j-i]=t;
}
printf("%s",p);
}
```

a)will print:string

b)will not print anything since p will be pointing to a null strin

g

c)will print:gnirts

d)will result in a complication error

e)will print invallid characters(junk)

(Ans will be b) check

- 12) After the following command is executed

```
$ ln old new
```

a listing is performed with the following output

```
$ ls -li
```

```
total 3
```

```
15768 -rw-rw-rw- 2 you 29 Sep 27 12:07 old
```

```
15768 " " " " " " " " new
```

```
15274 " " 1 " 40 " " 09:34 veryold
```

which of the following is true

a)old and new have same i-node number,2

b) " " " " " " " " , 15768

c)old and new have nothing yo do with each other

d)very old and new are linked

e)very old and old are linked

(Ans is b)

- 13) What will be the result of executing the following statement

```
int i=10;
printf("%d %d %d",i,++i,i++);
```

a).10 11 12

b).12 11 10

c).10 11 11

d).result is OS dependent

e).result is compiler dependent

(Ans is e)

- 14) What does extern means in a function declaration

a)the funct has global scope

- b)the funct need not be defined\
- c)nothing really
- d)the funct has local scope only to the file it is defined in
- e)none of the above

(Ans will be c)

15) What will be result of the following program

```
main()
{
void f(int,int);
int i=10;
f(i,i++);
}
void f(int i,int j)
{
if(i>50)
return;
i+=j;
f(i,j);
printf("%d,",i);
}
```

- a) .85,53,32,21
- b) 10,11,21,32,53
- c) 21,32,53,85
- d) 32,21,11,10
- e) none of the above

(Ans is e)

16). MS windows 3.1 is a

- a)operating system
- b)Application
- c)Programing language
- d)database
- e)shell

(Ans will be b)

17).MS Windows 3.1 supports which type of multi-tasking?

- a)cycle
- b)executive
- c)preemptive
- d)Non-preemptive
- e)Manual

(Ans)

18)The commandln /bin/mail /usr/you/bin/m

- a)will not be executed because you are linking files across different file systems
- b)results ln /bin/main being the same file as /usr/you/bin/m
- c)results in 2 links to the file mail
- d) " " " " m
- e)none

(Ans will be b)

19)In a standerd directory lay out ,/etc is the directory where

- a) basic programs such as who and ed reside

b) - - - - -

c) various administrative files such as password file reside

d) - - - - -

e) - - - - -

(Ans is c)

20) The command echo *

a) echoes all files in the current directory

b) - - - - -

c)

d)

e)

(Ans is a)

21) What will be the result of the following segment of the program

```
main()
{
    char *s="hello world";
    int i=7;
    printf("%.7s",s);
}
```

a) syntax error

b) hello w

c)

d)

e)

(Ans is b)

22) What will be the result of the following program

```
main()
{
    int a,b;
    printf("enter two numbers :");
    scanf("%d%d",a,b);
    printf("%d+%d=%d",a,b,a+b);
}
```

a) - - - - -

b) - --

c) will generate run time error /core dump

d)

e)

(Ans is c)

23) What is the size of 'q' in the following program?

```
union{
    int x;
    char y;
    struct {
        char x;
        char y;
        int xy;}p;
    }q;
```

a) 11

b) 6

- c) 4
- d) 5
- e) none

(Ans is b why because no of bytes for int =4 given in instructions)

24) Which message is displayed when a window is destroyed

- a) WM_CLOSE
- b) WM_DESTROY
- c) WM_NCDESTROY
- d)
- E)

(Ans is b)

25) Send Message and postmessage are

- a) send message puts the message in the message queue and results,

postmessage processes the message immediately

- b) Sendmessage processes the message immediately, postmessage puts the message in the queue and returns
- c) Both put the message in the message queue and returns
- d) Both process the message immediately
- e) None of the above

(Ans will be b check)

26) Which of the following message is used to limit the size of teh Window

- a) WM_SIZE
- b) WM_PAIN
- c) - - - -
- d) - - - -

(Ans is a)

27) until who | grep mary
do

sleep 60

done

- a) is syntactically incorrect
- b) waits 60 seconds irrespective of Mary being logged in or not
- c) waits until Marry is logged in
- d) waits till Mary exited
- e) None

(Ans is c)

28) The UNIX system call that transforms an executable binary file into a process is

- a) execl()
- b) execv()
- c) execl()
- d) execve()
- e) All of the above

(Ans will be d check)

29) Which of the following is true about fork()

- a) - - - - -
- b) causes the creation of a new process ,the CHILD process with a new process ID

- c)
- d)
- e)

(Ans is b)

30) What do the following variable names represents?

sort register
volatile default

a) - - - -

b) - - - -

c) all the above are keywords

(Ans is c)

31) What will be the result of the following program

```
main()
{
char *x="String";
char y[] = "add";
char *z;
z=(char *) malloc(sizeof(x)+sizeof(y)=1);
strcpy(z,y);
strcat(z,y);
printf("%s+%s=%s",y,x,z);
}
```

a) Add+string=Add string

b) syntax error during compilation

c) run time error/core dump

d) add+string=

e) none

(Ans will be e consider cap&small letters)

32) What does the following expression means

a)

b)

c)

d) an array of n pointers to function returning pointers to
functions returning pointers to characters

(ANS IS d)

33) Which of the following is not a DDL object

a) HBRUSH

b) HPEN

c) HBITMAP

d) HRGN

e) HWND

(Ans is e)

34) Which of the following message is used to initialize the
contents of a dialog

a) WM_CREATE

b) WM_SIZE

c) WM_COMMAND

d) WM_INITDIALOG

e) none

(Ans will be d)

35) Interprocess communication in UNIX can be achieved using

- a) pipe
- b) Message
- c) Semaphores
- d) Shared Memory
- e) All of the above

(Ans is e)

36) Which of the following is true

- a) UNIX is a time sharing multi-user OS
- b) UNIX has a device independent file system
- c) UNIX is full duplex
- d) UNIX has command interpreter
- e) All of the above

(Ans is e)

Q). 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.

Q). 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

Q). In UNIX a files 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))

Q). 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). -- -- --
- d). - - - -
- e). none

(ans is (b))

Q). enum number { a=-1, b= 4, c, d, e}

what is the value of e ?

7,4,5,15,3

(ans is 7) check again

Q).The very first process created by the kernal that runs till the kernal process is haltes is

- a)init
- b)getty
- c)
- d)
- e)none

(Ans is a)

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)

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)

```

APTITUDE TEST

Missing leter

```

1).eefgghii- (Ans j)
2)
3)defdefghi- (Ans g)
4)cdexyzfghxyz- (Ans i)
5)defdegde- (h)
6)abczabcyabc- (x)
7)fgbhibjkb- (l)
8)- - - - - (Ans is r)
9)aarbsctarb- (s)
10)bccdeefg- (g)
11)efhikl- (n)
12)abccdeffg- (h)
13amnbopc- (q)
14)tttssrqqqp- (p)
15)ddffhhjj- (l)
16)mnmnklopopkl- (q)
17)cddeeefff- (f)
18)gfed- (c)
19)dfhjl- (n)
20)abcijdefij (g)
21)efgefghefghi- (e)
22)bcbdedfgfhi- (h)
23)aababccdc- (d)
24)aibcidef- (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)cgreuvvg- (y)
36)ksjtih- (v)

```

- 37)rsjtuhvw- (f)
 38)ieajfbk- (g)
 39)hebifej- (g)
 40)hjlmiel- (h)

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, insted of dividing it . If he devided 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 employee 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 instaled 36 punching machines at the begining of the year. In the spring they instaled 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 spend $\frac{1}{4}$ of his time preparing charts, $\frac{3}{8}$ of his time for coding, 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 18hrs)
- 6) A 16 story building has 12000ft 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 buroue 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 7hrs 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 employee 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 7hr30min?

(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 5/8)

-----987654321_0==_
Content-Type: text/plain; charset="us-ascii"

-----987654321_0==_--

This time he has not given the number series.

Apptitude:

part 1 : letter sevies.
part 2 : figures
part 3 : quantitave

Technical:

Most question are on Unix and some in C and some in windows 3.1
all question 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.Iam having number series so iam sending that.Please go through tha 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-verbel reasoning(figures).So it is impossible for me to send those.(25 questions)

part 3 (quantitative)

1.A clerk multiplined a number by ten when it should have been divided by ten.The ans he got was 100.what should the ans have been?
 a:1
 2.If Rs20/- 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?
 a:Rs12/-
 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 stored 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.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 not 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 $\frac{3}{4}$ 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, $\frac{1}{3}$ are women and $\frac{2}{3}$ 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 disply
ans:WM_DESTROY
5)MS Windows 3.1 about multitasking
ans:nonpreemptive
6)windows 3.1 is
ans:application
7) about switch 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 intiate the windows
ans:WinMain
```

paper

```
1.const char *
   char * const
      What is the differnce between the above tow?.
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 permisssion value with out giving write
permission
to others?.
6.About ln(linking)
7.A question on until
      until (who |grep mary)
      do
      sleep(60)
      done
8.Linkig across directories?.

9.process id for kernell process
10.very first process created by kernell
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.

TISL

I know some 25 questions.

The technical comprises of 50 questions on C, Unix and windows.

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

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14.win 3.1 supports which type of multi tasking?.

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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 inode numbers

5. Maximum 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?