1.5% more than inflation rate which is of 6.5% a year , then what wil 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 giben B and C the ame number of marbles they already have to each of them. then, B gave 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 th e no of marbles B have at the end (a) 2(x-y-z) (b) 4(x-y-z)(ii) If the total no. of marbles are 72, then the no. of marble S 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  $30 \, \text{km.If}$  the car goes with 4/5 th of its velocity the car reaches B 45min later to the actual time. If the car engine fails ofter travelling 45km, the car reaches the destination B 36min late to the actual time , what i the initial velocity of car and what is the distance between A and B i

km ans) 20 & amp; 130.

4. A person has Rs 100/- in his pocket, he can as 25 pencils or 15books. He kep  $\dot{}$ 

15% of the money for travelling expenses and purchased 5 pencils. So ho w  $_{\rm many}$ 

books he can purchase with the remaining money.

6. The values of shares A,B and C from january to june are as follows.

month	А	В	С
JAN	30	60	80
FEB	35	65	85
MAR	45	75	65
APR	40	75	82
MAY	55	75	85
JUNE	50	75	80

- 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 beginnin g of the period , to get max profit when this shares should be sold?
- period , to get max profit when this shares should be sold? v) ?
- 7. In a computer institute 9 languages can taught. The module is of 6 months  $\ensuremath{\text{d}}$

uration and only  $\sin$  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.
- # FORTRAN can not be taught until COBAL is coarsed prior to that
- # BINO, FIFO never be taught in single module

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  $\ensuremath{\mathsf{t}}$

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.

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.
- 13. (x # y) = x + y xy(x \* y) = (x + y) / 2
- i) (x # y) # (x \* y) & lt; (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.Scs
       iii) ...
i. what is the no. of female B.techs
 ii....
  dont remember this question , just for an example this has been give
n
               TISL (TATA-IBM) PAPER
               _____
Q9). what will be the result of executing following program
    main
    char *x=" new";
    char *y=" dictonary";
    char *t;
    void swap (char * , char *);
    swap (x,y);
    printf("(%s, %s)",x,y);
    char *t;
    t=x;
    x=y;
    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 tyoe of multi-tasking?
   a) cycle
   b) executive
   c) preemptive
   d) Non-preemptive
   e)Manual
    (Ans
18) The command .....ln/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)
  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) device related files reside
  c) various administrative files such as password file reside
  d) short-lived files created during program execution reside
  e) the C sub-routine library resides
   (Ans is c)
20) The command echo *
  a) echoes all files in the current directory
  b) prints * on the screen
  c) is an invalid command
  d) is the same as the command echo\*
  e) is the same as echo" *"
   (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("%.*%s",s);
       a) syntax error
       b)hello w
       c) Hello
       d) o world
       e) none
        (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) will print the sum of the numbers entered
    b) syntax error during compilation
     c) will generate run time error /core dump
     d) will print the string " a+b = a+b" on the screen
     e) none of these
     (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) WM POSTDESTROY
  E) NONE
   (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 gueue 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)
    Which of the following message is used to limit the size
     of teh Window
     a) WM_SIZE
    b) WM_PAIN
     c) WM GETMINMAXINFO
    d) WM COMMAND
     e) WM_CREATE
     (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) execle()
    d) execve()
    e) All of the above
    (Ans will be e check)
29) Which of the following is true about fork()
    a) it transforms an executable binary file into a process that
overlays the
process which made the fork() system call.NO new process is created.
   b) Causes the creation of a new process, the CHILD process, with a
new
process ID
    c) Causes the creation of a new process, the CHILD process, with th
same
process ID as the parent
    d) fork() has nothing to do with processes
    e) fork() is not a system call
    (Ans is b)
30) What do the following variable names represents?
            register
      volatile default
      a) short - is not a reserved keyword
      b ) volatile & amp; register - is not a reserved keyword
      c)all the above are keywords
      d) all are valid variable names
       e) default - is not a reserved keyword
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 leters)
32) What does the following expression means?
        char *(*(*a[N])())();
  a) a pointer to a function returning array of n pointers to function
returnin
character pointers
 b) a function return array of N pointers to funcions returning
pointers to
characters
  c) an array of n pointers to function returning pointers to
characters
  d) an arrey of n pointers to function returning pointers to
    functions returning pointers to characters
  e) none of the above
    (ANS IS d)
33) Which of the following is not a GDI object
   a) HBRUSH
   b) HPEN
   c) HBITMAP
   d) HRGN
   e) HWND
   (Ans ic 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)
                pwd
 45Q). PS1
   export PS1
                 results in
   a). your primary prompt being your current directory
                              and secondary prompts being the current
   b). "
                "
dir
   c).
                  "
                              prompt being your home dir
        "
   d).
        "
                              and secondary prompts being the home di
                "
r
   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 de 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
  70). 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) )
  44Q). The UNIX shell is....
  a).does not come with the rest of the system
  b).forms the interface between the user and the kernal
  c) does not give any scope for programming
  d) deos not allow calling one program from with in 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 ?
  7, 4, 5, 15, 3
   (ans is 7 ) check again
3Q). 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)
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
  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 Sring";
                char *Temp;
                Temp=a;
                a=malloc(strlen(p) + 1);
                                                //Line no:9//
                strcpy(a,p);
                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 & amp; 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 = \sim 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 massage will be printed
38) what will be the result of the following program ?
       char *qxxx()
               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
```

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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(q,"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]=='q')
               printf(" Pass 2");
               else
               printf(" Fail 2");
             }
               else
             {
               printf("Fail 1");
               if (p[sizeof(p)-2]=='q')
               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 characterr & amp;
    Second : You can; t change the pointer
 c) You can't change the pointer in both
 d) First: You can't change the pointer & amp;
    Second : You can't chanage 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: &qt; write to any file while &qt; &qt; 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  ${\sf second}$ , third

and /usr/you/myfile and prints them

c) searches the files /usr/you/myfiel and third for lines containing

the word s first or second and prints them

- d) replaces the word first with the word second in the files third and  $\mbox{usr/you/myfile}$
- e) None of the above Ans) b

Missing leter 1).eefgghii-(Ans j) 2) 3) defdefghi-(Ans g) 4) cdexyzfghxyz-(Ans i) 5) defdeqde-(h) 6) abczabcyabc-(X)7) fgbhibjkb-(1)8) - - - - -(Ans is r) 9) aarbsctarb-(s) 10) bccdeefg-(g) 11)efhikl-(n) 12) abccdeffg-(h) 13amnbopc-(q) 14) tttssrqqqp-(p) 15) ddffhhjj-(1)16) mnmnklopopkl- (q) 17) cddeeefff-(f) 18) gfed-(C) 19) dfhjl-(n) 20) abcijdefij 21) efgefghefghi- (e)

```
22) bcbdedfqfhi-
                   (h)
23) aababccdc-
                   (d)
24)aibcidef-
                      (i)
25) cehl-
                   (q)
26) abdehimn-
                   (s) check again
27) becfdge-
                   (h)
28) agbhc-
                   (i)
                   (r)
29) adhko-
30)efghjklno-
                   (q)
31) aedhq-
                   (k)
32aeibf-
                   (j)
33) zdwat-
                   (J)
34) zevijxa-
                  ()find
35) careuva-
                   (\land)
36)ksjtiuh-
                   (\wedge)
37) rsjtuhvw-
                  (f)
38)ieajfbk-
                   (q)
39)hebifej-
                   (g)
40)hjlmiel-
               (h)
```

TOTAL 60 QUE'S 25-PROBLEMS & amp; 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 1/4 of his time preparing charts, 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 2/3 of a computer service buroue business and sells 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)

```
>From <a
href="http://be10-mail.mailcity.lycos.com:80/96115074821570910517113/a
b
   _mailto_fromab.femail?wholemail=csa97013@yaman.cse.iitd.ernet.in
">csa97013@yaman.cse.iitd.ernet.in</a> Thu Aug 20 16:19:06 1998
Received: from mail.iitk.ac.in (mail.iitk.ac.in [202.54.56.131]) by
qasid
.cc.iitk.ernet.in (8.8.3/8.8.3) with ESMTP id QAA05084 for
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b
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">sraos@qasid.cc.iitk.ernet.in</a>>; Thu, 20 Aug 1998 16:19:02 +0500
(GMT+0500)
Received: from desh.cse.iitd.ernet.in ([202.141.68.3])
```

by mail.iitk.ac.in (8.8.8/8.8.7) with ESMTP id LAA02039

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">sraos@iitk.ac.in</a>>; Thu, 20 Aug 1998 11:19:31 +0530
Received: from yaman.cse.iitd.ernet.in (<a
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Date: Thu, 20 Aug 1998 15:42:19 +0530 (IST)
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">bvjmanohar@hotmail.com
</a>
Subject: hai friends
Message-ID:
< Pine.LNX.3.96.980820153706.17986A-100000@yaman.cse.iitd.ernet.in&g
t
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
Status: RO
hai friends here is ibm global services paper and some other questions
                IBM GLOBAL SERVICES
1. In 1978, a kg of paper was sold at Rs25/-. I f the paper rate
increases at
1.5% more than inflation rate which is of 6.5% a year , then what wil
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 giben B
same number of marbles they already have to each of them. then, B gave
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 th

```
e 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 marble 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 4/5 th of its actuval v

elocity the car reaches B 45min later to the actual time. If the car engine

fails ofter travelling

45km, the car reaches the destination B 36min late to the actual time

, what i

the initial velocity of car and what is the distance between A and B i

km

ans) 20 & amp; 130.

4. A person has Rs 100/- in his pocket, he can as 25 pencils or 15books. He kep t

15% of the money for travelling expenses and purchased 5 pencils. So ho

many

books he can purchase with the remaining money.

5. ten questions on analogies.

ex: hammer : carpenter ::

knife : butcher.

6. The values of shares A,B and C from january to june are as follows.

A	В	С
30	60	80
35	65	85
45	75	65
40	75	82
55	75	85
50	75	80
	30 35 45 40 55	30 60 35 65 45 75 40 75 55 75

- 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 beginnin  $\ensuremath{\mathtt{g}}$  of the

period , to get max profit when this shares should be sold?  $\mathbf{v}$ ) ?

7. In a computer institute 9 languages can taught. The module is of 6 months  ${\rm d}{\rm u}$ 

ration 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.
- # FORTRAN can not be taught until COBAL is coarsed prior to that
- # BINO, FIFO never be taught in single module

languages are BASIC, WORD STAR, WORD PERFECT, FORTRAN, COBAL, BINO, FIFO, L
OTUS, 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  $\ensuremath{\mathsf{t}}$

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  $\frac{1}{2}$

cut and is formed as open box. If this open box carries  $128\,\mathrm{ml}$  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) & lt; (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.Scs iii) ...

i. what is the no. of female B.techs ii....

dont remember this question , just for an example this has been give n

> TISL (TATA-IBM) PAPER \_\_\_\_\_

Q9). what will be the result of executing following program main char \*x=" new"; char \*y=" dictonary"; 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
```

```
q
   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&qt;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 tyoe of multi-tasking?
    a) cycle
   b) executive
    c) preemptive
    d) Non-preemptive
    e)Manual
    (Ans
18) The command .....ln/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) device related files reside
  c) various administrative files such as password file reside
  d) short-lived files created during program execution reside
  e) the C sub-routine library resides
   (Ans is c)
20) The command echo *
  a) echoes all files in the current directory
  b) prints * on the screen
  c) is an invalid command
  d) is the same as the command echo\
  e) is the same as echo" *"
   (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(" %.*%s",s);
       a) syntax error
       b)hello w
       c) Hello
       d) o world
       e) none
        (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) will print the sum of the numbers entered
    b) syntax error during compilation
    c) will generate run time error /core dump
    d) will print the string " a+b = a+b" on the screen
    e) none of these
     (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) WM POSTDESTROY
  E) NONE
   (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)
    Which of the following message is used to limit the size
     of teh Window
     a) WM_SIZE
     b) WM_PAIN
     c) WM_GETMINMAXINFO
     d) WM COMMAND
     e) WM CREATE
     (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) execle()
    d) execve()
    e) All of the above
    (Ans will be e check)
29) Which of the following is true about fork()
    a) it transforms an executable binary file into a process that
overlays the
process which made the fork() system call.NO new process is created.
    b) Causes the creation of a new process, the CHILD process, with a
process ID
    c) Causes the creation of a new process, the CHILD process, with th
same
process ID as the parent
    d) fork() has nothing to do with processes
    e) fork() is not a system call
```

```
(Ans is b)
30) What do the following variable names represents?
           register
      sort
      volatile default
      a) short - is not a reserved keyword
     b ) volatile & register - is not a reserved keyword
      c)all the above are keywords
      d) all are valid variable names
      e) default - is not a reserved keyword
      (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 leters)
32) What does the following expression means?
        char *(*(*a[N])())();
  a) a pointer to a function returning array of n pointers to function
returnin
g
character pointers
 b) a function return array of N pointers to funcions returning
pointers to
characters
  c) an array of n pointers to function returning pointers to
characters
  d) an arrey of n pointers to function returning pointers to
    functions returning pointers to characters
  e) none of the above
    (ANS IS d)
33) Which of the following is not a GDI object
  a) HBRUSH
  b) HPEN
  c) HBITMAP
  d) HRGN
  e)HWND
   (Ans ic 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)
                pwd
 45Q). PS1
   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 di
r
   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 de 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
 70). 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) )
  44Q). The UNIX shell is....
  a).does not come with the rest of the system
  b).forms the interface between the user and the kernal
  c) does not give any scope for programming
  d) deos not allow calling one program from with in 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 ?
  7, 4, 5, 15, 3
   (ans is 7 ) check again
3Q). 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)
 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&qt;i){
   printf(" pass1, ");
   if(c<u)
   printf(" pass2");
   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 Sring";
               char *Temp;
               Temp=a;
               a=malloc(strlen(p) + 1);
                                             //Line no:9//
               strcpy(a,p);
               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 & amp; 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 = \sim 0;
                if(x == y)
                printf(" same");
                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 massage 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(qxxx(),q);
               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, \setminus 0, n*sizeof(char));
       main()
       {
               char *q="String";
               myalloc(g, 20);
               strcpy(g,"Oldstring");
               printf(" The string is %s", q);
  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]=='q')
               printf("Pass 2");
               else
               printf("Fail 2");
             }
               else
             {
               printf(" Fail 1");
               if (p[sizeof(p)-2]=='q')
               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 characterr & amp;
    Second : You can; t change the pointer
 c) You can't change the pointer in both
 d) First: You can't change the pointer & amp;
```

```
Second : You can't chanage 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/myfiel and third for lines containing
the word
S
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 TEST
         ***************
Missing leter
1).eefgghii-
              (Ans j)
2)
3)defdefghi-
              (Ans g)
4) cdexyzfqhxyz-(Ans i)
5) defdegde-
              (h)
6) abczabcyabc- (x)
7) fqbhibjkb-
              (1)
8) - - - -
              (Ans is r)
```

```
9) aarbsctarb-
                 (s)
10) bccdeefg-
                 (g)
11)efhikl-
                 (n)
12) abccdeffq-
                 (h)
13amnbopc-
                 (q)
14)tttssrqqqp-
                 (p)
15) ddffhhjj-
                 (1)
16) mnmnklopopkl- (q)
17) cddeeefff- (f)
18) qfed-
                 (C)
19) dfhjl-
                 (n)
20) abcijdefij (g)
21) efgefghefghi- (e)
22) bcbdedfqfhi- (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-
                   (a)
31) aedhq-
                   (k)
32aeibf-
                   ( j )
33) zdwgt-
                   (J)
34)zeyijxg-
                   () find
35)cqreuvg-
                   (y)
36)ksjtiuh-
                   (\nabla)
37) rsjtuhvw-
                   (f)
38)ieajfbk-
                   (g)
39) hebifej-
                   (g)
40) hjlmiel-
                   (h)
```

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

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

- 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 1/4 of his time preparing charts, 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 2/3 of a computer service buroue business and sells 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)

THIS WE WERE WRITTEN AFTER ATTEMPTING EXAM HERE THEY HAS TAKEN THREE PEOPLE FROM M.TECH (ONE FROM METALLURJY, ONE FROM MECHANICAL.ONE

FROM EE)

•

try hardly and you might be get selected.

## I2 TECHNOLOGIES

This paper mainly consists of two parts, one hour each. First part consists of mainly reasoning q's and artificial inteligence q's. Second paper consists ofprogramming skills, includes some tough q's(CS standard) and other q's are related to 'C'.

Here I am giving some Q's.

Part .1

time - 1 hr.

Here in the reasonig q's they have given some pasages and asked find best

assumptions, asked find better conclusion drawn from the passage. They

are all

multiple chice q's. This paper is relatively easy. But you have to rea d and

understand q's as quickly as possible . Time is sufficient.

part - 2.

time- 1 hr

sec-1: 20 q's 60 marks (one -ve mark for the wrong ans).

- 1. convert 0.9375 in to binary form. (prepare these conversoin well).
- 2. parameters are passed to functions only by value (y/n).
- 3.if a& b are int arrays then the expression a==b can never evaluate to true.

(y/n).

4. The expression (a+b)\*c\*d)-e is represented as an exp.tree. the tree

is threa

a

ed for inorder to traversal left to right. What