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TISL ----> PAPER MODEL
               Two parts.
                 aptitude (100 Que) 100 marks
        Part A:
                 1 to 40 leter 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="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
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(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
                     """ " new
  15768 " "
           11 11
                     1 " 40 " " 09:34 veryold
  15274
  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
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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 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
              11
   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
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c) various administrative files such as password file reside
  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("%.*%s",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
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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)
    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) execle()
    d) execve ()
    e) All of the above
    (Ans will be d check)
29) Which of the following is true about fork()
    b) causes the creation of a new process , the CHILD process
      with a new process ID
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C)
    d)
    e)
    (Ans is b)
30) What do the following variable names represents?
               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 leters)
32) What does the following expression means
  a)
 b)
  C)
  d) an arrey 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 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)
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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
                   and secondary prompts being the current dir
    c).
                   prompt being your home dir
              **
    d).
                   and secondary prompts being the home dir
       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 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
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) )
O). 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) -- --
  d) - - - -
  e) none
   (ans is (b)
               )
Q).enum number { a=-1, b=4, c, d, e}
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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")
```

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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-
                  (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-
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) cgreuvg-
                    (y)
36)ksjtiuh-
                    (\wedge)
```

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 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)

TATA -IBM

LETTER SERIES

	_	answers
1)e e f g g h i i		j
2) a z a y b z b y c	a e x y z	Z
3)defdefghi	-defgh	g
4)cdexyzfghx	yz ijklm	i
5)de f de g d e	djzhi	h
6) a b c z a b c y a b	c a b x y z	Х
7)dgbhibjkb	belmn	1
8) t s p t s q t s	r s t v w	r
9)qarbsatarb	abers	S
10)bccdeefg	efghi	g
11)e f h i k l	m n o p q	n
12)abccdeffg	efghi	h
13)a m n b op c	depqr	q
14)ttt sss qqq p	opqrs	р

15)ddffhhjj	ijklm	1
16)mnmnklopopkl	kopqr	q
17)cddeeefff	efghi	f
18)gfde	bcfgh	С
19)dfhjl	jklmn	n
20)abcijdefij	ghijk	g
21)efgefghefghi		е
22)bcbdedffghi	fghjk	h
23) aababccdc	cdefg	d
24)aibcidef	efghi	i
25)cehl	opqrs	q
26)abdehimn	pqrst	S
27)becfdge	efghi	h
28) agbhc	dfghi	i
29) adhko	pqrst	r
30)efghjklno	pqrst	d
31)aeibf	cdgij	j
32) aedhg	hijkl	k
33)zdwgt	hijkl	j
34)zeiyijxj	ijklm	k
35)dqreuvg	vwxyz	У
36)ksjtiuh	VWXYZ	V
37)rsjtuhvw	cdefg	f
38)ieajfbk	cdefg	g

```
39) hebijej ----
                  ghijk
                                                g
40) njfmiel ---
                       dhijm
                                                h
1)
           main()
                  char *p1="name";
                  char *p2;
                  p2 = (char*) malloc(20);
                  while (*p2++ = *p1++);
                  printf("%s\n",p2);
                   Ans: empty string.
2)
            main()
                    int x=20, y=35;
                    x=y++ + x++;
                    y = + + y + + + x;
                    printf("%d%d\n",x,y);
                   Ans: 57,94
3)
                  main()
                     int x=5;
                     printf("%d%d%d\n",x,x<<2,x>>2);
                   ans: 5,20,16
4)
                  \#define swap(a,b) a=a+b;b=a-b;a=a-b;
                  main()
                   int x=5; y=10;
                   swap1(x,y);
                   printf("%d %d\n",x,y);
                   swap2(x,y);
                   printf("%d %d\n",x,y);
            int swap2(int a, int b)
                 int temp;
                 temp=a;
                 b=a;
                 a=temp;
                 return;
             }
                   like that
                     ans: 10 ,5
```

```
10,5
5)
        main()
         {
           char *ptr = " Ramco Systems"
           (*ptr)++;
           printf("%s\n",ptr);
           ptr++;
           printf("%s\n",ptr);
           Ans:
                 Samco Systems
                    amco systems
 6)
          main()
           char s1[]="Ramco";
           char s2[] = "systems";
           printf("%s",s1);
          Ans: compilation error giving that it can not modified
Lvalue.
7)
        main()
          char *p1;
          char *p2;
          p1=(char *) malloc(25);
          p2=(char *)malloc(25);
          strcpy(p1, "Ramco");
          strcpy(p2, "systems");
          strcat(p1, p2);
          printf("%s",p1);
         }
          Ans: Ramcosystems
8)
   The following variable is available in file1.c
        static int average float;
        Ans: all the functions in the file1.c can access the variable.
9)
    Ans: [2] . extern int x;
    check the answer.
10)
     Another problem with
        #define TRUE 0
         somecode.
         while (TRUE)
         {
          somecode
         This will not go into the loop as TRUE is defined as 0.
         Ans: None of the above i.e (D).
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```
11)
           Ans :
                 [4]. A question in structures where the members are
dd, mm, yy.
                   mm:dd:yy
                   09:07:97
12)
       Ans: [5] Another structure question.
                   1.Rajiv system analyst.
13)
        Ans: INFILE.DAT is coupled to OUTFILE.DAT.
14)
     A question with argc and argv.
          Inputfile will be.
                c:\TEMP.EXE Ramco systems India.
           Outputfile will be.
                   India: I n d i a
                   systems: s y s t e m s
                   Ramco: R a m c o
          Ans : choice (d)
15) structure kswap
        Ramco India
        Ramco Systems Corporation
        Ramco .... Limited.
        After swaping the result will be
        First two will be swaped
        Ramco Systems Corporation.
        Ramco India
        Ramco .... Limited.
16)
   int x;
         main()
          { int x=10;
                 x++;
                 change-value(x);
                 x++;
                 modify-value();
                 printf("First output:%d\n",x);
           x++;
           change-value(x);
           printf("secpnd output:%d\n",x);
           modify-value();
           printf("Third output:%d\n",x);
          modify-value()
           return (x+=10);
          change-value()
```

```
return (x+=1);
          }
        Ans: 12 , 1 , 1
17)
   main()
          int x=10; y=15;
         x = x++;
          y = ++y;
         printf("%d %d\n",x,y);
         Ans: 11, 16
18)
        main()
         {
          int a=0;
          if(a==0) printf("Ramco Systems\n");
         printf("Ramco Systems\n");
        Ans: only one time "Ramco Systems" will be printed.
```