This test consists of 50 questions. The Set Code for this paper is D.

1. The C langu	age terminator is	S			
(a) semicolon (b) color			(c) period		(d)
exclamation m	ark				
2. What is false about the following A compound statement is (a) A set of simple statements (b) Demarcated on either side by the shorts.					
curly brackets (c) Can b statement.	e used in place o	f simple state	ement	(d) A	C function is not a compound
3. What is true	about the follow	ving C Funct	ions		
(a) Need not return any value				(b) Sh	ould always return an integer
(c) Should always return a float				(d) Sł	nould always return more than
one value					
4. Main must b	oe written as				
	rst function in th	e program		(b) S	Second function in the program
(c) Last f	unction in the pro	ogram		(d) A	ny where in the program
(a) Its typ (c) They a 6. Write one st Choose from (a) return (c) return 7. Which of th (a) Comm (b) Comm (c) A line	n one of the alter (sqr(a));	ed before uside to zero ent to the followatives the C comment of the comment of t	lowing two st (b) printf("s (d) printf("g ments is incores he line out any langu	le (b) 7 (d) T atements: x= qr(a)"); %d",sqr(a)); rrect ?	They are local They are global Esqr(a); return(x);
8. What is the	value of y in the x=7; y=0; if(x=6) y=7; else y=1;	following co	ode?		
(a) 7	•	(b) 0		(c) 1	(d) 6
9. Read the fun	nction conv() giv conv(int t) { int u; u=5/9 * (t-2)				

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return(u);
  What is returned
     (a) 15
                                  (b) 0
                                                            (c) 16.1
                                                                                      (d) 29
10. Which of the following represents true statement either x is in the range of 10 and 50 or y is zero
     (a) x >= 10 \&\& x <= 50 \parallel y = = 0
                                                            (b) x < 50
     (c) y!=10 \&\& x>=50
                                                            (d) None of these
11. Which of the following is not an infinite loop?
     (a) while (1) \setminus \{ .... \}
                                                         (b) for(;;){...}
     (c) x=0;
                                                         (d) # define TRUE 0
       do{ /*x unaltered within the loop*/
          .....} while(x = 0);
                                                             while(TRUE){ ....}
12. What does the following function print?
                  func(int i)
                    if(i%2)return 0;
                    else return 1;
                  }
                  main()
                  {
                    int = 3;
                    i=func(i);
                    i=func(i);
                    printf("%d",i);
     (a) 3
                              (b) 1
                                                        (c) 0
                                                                                  (d) 2
13. How does the C compiler interpret the following two statements
                  p=p+x;
                  q=q+y;
                                                          (c)p = p + xq;
                                                                                    (d)p=p+x/q=q+y;
     (a) p=p+x;
                              (b)p=p+xq=q+y;
                                                            q=q+y;
        q=q+y;
For questions 14,15,16,17 use the following alternatives:
     a.int
                               b.char
                                                           c.string
                                                                                      d.float
14. '9'
15. "1 e 02"
16. 10e05
17. 15
18. Read the following code
     # define MAX 100
     # define MIN 100
```

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if(x>MAX)
          x=1;
       else if(x<MIN)
         x=-1;
          x=50;
if the initial value of x=200, what is the value after executing this code?
     (a) 200
                                (b) 1
                                                         (c) -1
                                                                                   (d) 50
19. A memory of 20 bytes is allocated to a string declared as char *s then the following two
statements are executed:
               s="Entrance"
               l=strlen(s);
     what is the value of 1?
     (a)20
                                                       (c)9
                              (b)8
                                                                               (d)21
20. Given the piece of code
         int a[50];
         int *pa;
          pa=a;
     To access the 6th element of the array which of the following is incorrect?
     (a) *(a+5)
                                   (b) a[5]
                                                        (c) pa[5]
                                                                                  (d) *(*pa + 5)
21. Consider the following structure:
                 struct num nam
                    int no;
                    char name[25];
                 struct num nam n1[]={{12,"Fred"},{15,"Martin"},{8,"Peter"},{11,Nicholas"}};
                 printf("\%d\%d",n1[2],no,(*(n1 + 2),no) + 1);
  What does the above statement print?
                             (b) 9.9
     (a) 8,9
                                                     (c) 8.8
                                                                              (d) 8,unpredictable
value
22. Identify the in correct expression
    (a)a=b=3=4;
                          (b)a=b=c=d=0;
                                                    (c)float a=int b= 3.5;
                                                                              (d)int a; floatb; a=b=3.5;
23. Regarding the scope of the varibles; identify the incorrect statement:
(a) automatic variables are automatically initialized to 0 (b) static variables are are automatically
initialized to 0
```

(c) the address of a register variable is not accessible

(d) static variables cannot be initialized with

any expression

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24. cond 1?cond 2?cond 3?:exp 1:exp 2:exp 3:exp 4;
is equivalent to which of the following?
          (a) if cond 1
            exp 1;
            else if cond 2
            exp 2;
            else if cond 3
            exp 3;
            else exp 4;
          (b) if cond 1
            if cond 2
            if cond 3
            exp 1;
            else exp 2;
            else exp 3;
            else exp 4;
          (c) if cond 1 && cond 2 && cond 3
            exp 1 lexp 2lexp 3lexp 4;
          (d) if cond 3
            exp 1;
            else if cond 2 exp 2;
            else if cond 3 exp 3;
            else exp 4;
25. The operator for exponentiation is
     (a) **
                                                   (c) %
                                                                           (d) not available
26. Which of the following is invalid
     (a) a+=b
                            (b) a^*=b
                                                    (c) a >>= b
                                                                           (d) a^{**}=b
27. What is y value of the code if input x=10
                 y=5;
                 if (x==10)
                 else if(x==9)
                 else y=8;
     (a)9
                           (b)8
                                                    (c)6
                                                                          (d)7
28. What does the following code do?
                 fn(int n, int p, int r)
                    static int a=p;
                    switch(n)
                       case 4:a+=a*r;
                       case 3:a+=a*r;
                       case 2:a+=a*r;
                       case 1:a+=a*r;
```

```
(a) computes simple interest for one year
                                                   (b) computes amount on compound interest for 1
to 4 years
(c) computes simple interest for four year
                                                   (d) computes compound interest for 1 year
29.
                 a=0;
                 while(a < 5)
                 printf("%d\\n",a++);
  How many times does the loop occurs?
     (a) infinite
                                                                                            (d)6
                                      (b)5
                                                                 (c)4
30. How many times does the loop iterated?
                 for(i=0;i=10;i+=2)
                 printf("Hi\\n");
     (a)10
                                     (b) 2
                                                                (c) 5
                                                                                           (d) None
of these
31. What is incorrect among the following
     A recursive function
       (a) calls itself
                                                 (b) is equivalent to a loop
       (c) has a termination condition
                                                  (d) does not have a return value at all
32. Which of the following go out of the loop if expn 2 becoming false
     (a) while(expn 1)\{...if(expn 2)continue;} (b) while(!expn 1)\{if(expn 2)continue;...}
     (c) do{..if(expn 1)continue;...} while(expn 2); (d) while(!expn 2)\{if(expn 1)continue;...\}
33. Consider the following program
                 main()
                    unsigned int i=10;
                    while(i>=0)
                      printf("%u",i)
                      i--:
  How many times the loop will get executed
     (a)10
                              (b)9
                                                       (c)11
                                                                                (d) infinite
34.Pick out the odd one out
     (a) malloc()
                               (b) calloc()
                                                        (c) free()
                                                                                  (d) realloc()
35.Consider the following program
                 main()
                    int a[5]=\{1,3,6,7,0\};
                    int *b;
```

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b = &a[2];
  The value of b[-1] is
     (a) 1
                           (b) 3
                                                   (c) -6
                                                                             (d) none
                 # define prod(a,b)=a*b
36.
                 main()
                    int x=2;
                    int y=3;
                   printf("\%d",prod(x+2,y-10));
  the output of the program is
     (a) 8
                           (b) 6
                                                   (c) 7
                                                                            (d) None
37.Consider the following program segment
                 int n,sum=1;
                 switch(n)
                    case 2:sum=sum+2;
                    case 3:sum*=2;
                    break;
                    default:sum=0;
  If n=2, what is the value of sum
     (a) 0
                           (b) 6
                                                   (c) 3
                                                                              (d) None of these
38. Identify the incorrect one
          1.if(c=1)
         2.if(c!=3)
         3.if(a<b)then
         4.if(c==1)
                           (b) 1&3
     (a) 1 only
                                                     (c) 3 only
                                                                                (d) All of the above
39. The format specified for hexa decimal is
     (a) %d
                           (b) %o
                                                    (c) %x
                                                                               (d) %u
40. Find the output of the following program
                 main()
                    int x=5, *p;
                   p=&x
                    printf("%d",++*p);
     (a) 5
                                                           (c) 0
                                                                                      (d) none of
                                (b) 6
these
41.Consider the following C code
                 main()
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```
int i=3,x;
                    while(i>0)
                       x=func(i);
                       i--;
                    int func(int n)
                       static sum=0;
                       sum=sum+n;
                       return(sum);
    The final value of x is
                                                       (c) 1
                                                                                   (d) 3
     (a) 6
                              (b) 8
43. Int *a[5] refers to
     (a) array of pointers
                              (b) pointer to an array
                                                          (c) pointer to a pointer
                                                                                       (d) none of
these
44.Which of the following statements is incorrect
    (a)
                  typedef struct new
                    int n1;
                    char n2;
                  } DATA;
     (b)
                  typedef struct
                    int n3;
                    char *n4;
                  }ICE;
     (c)
                  typedef union
                    int n5;
                    float n6;
                  } UDT;
(d)
                  #typedef union
                    int n7;
                    float n8;
                  } TUDAT;
```