C TEST Page 1 of 7

C TEST

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

1. The C language termi (a) semicolon exclamation mark	nator is (b) colon	(c) period	(d)	
2. What is false about th (a) A set of simple curly brackets			rcated on either side by	
•	place of simple statemen	t (d) A C t	function is not a compound	
3. What is true about the (a) Need not return (c) Should always rone value	any value		d always return an integer ld always return more than	
4. Main must be written (a) The first function (c) Last function in	on in the program		(b) Second function in the program(d) Any where in the program	
	declared before using th		orrect ? y are local y are global	
6. Write one statement e Choose from one of the (a) return(sqr(a)); (c) return(a*a*a);	ne alternatives (b)	ng two statements: x=sqr printf("sqr(a)"); printf("%d",sqr(a));	(a); return(x);	
7. Which of the followin (a) Comments can (b) Comments can (c) A line can conta	· · ·	s is incorrect ?		
8. What is the value of y $x=7$; $y=0$; $if(x=6)$ else $y=$	y=7;			
(a) 7	(b) 0	(c) 1	(d) 6	
9. Read the function conconv(in {	•			

C TEST Page 2 of 7

```
int u;
                    u=5/9 * (t-32);
                    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
                                                             (d) None of these
     (c) y!=10 \&\& x>=50
11. Which of the following is not an infinite loop?
     (a) while (1)\setminus\{\ldots\}
                                                          (b) for(;;){...}
                                                         (d) # define TRUE 0
     (c) x=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;
     (a) p = p + x;
                              (b)p=p+xq=q+y;
                                                          (c)p = p + xq;
                                                                                     (d)p=p+x/q=q+y;
        q=q+y;
                                                            q=q+y;
For questions 14,15,16,17 use the following alternatives:
                                                                                      d.float
     a.int
                               b.char
                                                           c.string
14. '9'
15. "1 e 02"
16. 10e05
17. 15
18. Read the following code
```

C TEST Page 3 of 7

```
# define MAX 100
    # define MIN 100
       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
                                                                              (d)21
                              (b)8
20. Given the piece of code
         int a[50];
         int *pa;
     To access the 6th element of the array which of the following is incorrect?
     (a) *(a+5)
                                                                                 (d) *(*pa + 5)
                                   (b) a[5]
                                                       (c) 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?
     (a) 8,9
                             (b) 9,9
                                                     (c) 8,8
                                                                             (d) 8,unpredictable
value
22. Identify the in correct expression
                          (b)a=b=c=d=0;
                                                   (c)float a=int b= 3.5;
                                                                             (d)int a; floatb; a=b=3.5;
    (a)a=b=3=4;
```

- **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

C TEST Page 4 of 7

```
initialized to 0
(c) the address of a register variable is not accessible
                                                          (d) static variables cannot be initialized with
any expression
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) **
                             (b) ^
                                                    (c) %
                                                                           (d) not available
26. Which of the following is invalid
                                                                            (d) a**=b
     (a) a+=b
                             (b) a*=b
                                                    (c) 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
                                                    (c)6
                                                                          (d)7
                           (b)8
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;
```

C TEST Page 5 of 7

```
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
                                      (b)5
                                                                 (c)4
                                                                                           (d)6
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()
```

C TEST Page 6 of 7

```
int a[5] = \{1,3,6,7,0\};
                    int *b;
                    b = &a[2];
  The value of b[-1] is
     (a) 1
                           (b) 3
                                                    (c) -6
                                                                              (d) none
36.
                 # define prod(a,b)=a*b
                 main()
                    int x=2;
                    int y=3;
                    printf("\%d",prod(x+2,y-10));
  the output of the program is
     (a) 8
                                                    (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
                           (b) 6
                                                                               (d) None of these
     (a) 0
                                                    (c) 3
38. Identify the incorrect one
          1.if(c=1)
         2.if(c!=3)
         3.if(a<b)then
         4.if(c==1)
     (a) 1 only
                            (b) 1&3
                                                     (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
                                (b) 6
                                                           (c) 0
                                                                                       (d) none of
these
```

C TEST Page 7 of 7

```
41.Consider the following C code
                 main()
                    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
                                                                                   (d) 3
     (a) 6
                              (b) 8
                                                       (c) 1
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
                  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;
```