(TEST PAPER) TCS, C, C++ Language Paper

1. The C language	e terminator is			
(a) semicolon	(b) colon	(c) period	(d) exclamation mark	
2. What is false a	bout the followin	g A compou	nd statement is	
(a) A set of simple	e statements		(b) Demarcated on either side	by curly brackets
(c) Can be used ir	n place of simple s	statement	(d) A C function is not a comp	oound statement.
3. What is true al	bout the following	g C Functions		
(a) Need not retu	ırn any value	((b) Should always return an into	eger
(c) Should always	return a float	((d) Should always return more	than one value
4. Main must be	written as			
(a) The first funct	ion in the progra	m	(b) Second function in the pro	ogram
(c) Last function i	in the program		(d) Any where in the program	
5. Which of the fo	ollowing about au	ıtomatic varial	oles within a function is correct	?
(a) Its type must	be declared befor	e using the va	riable (b) They	are local
(c) They are not i	nitialized to zero		(d) They are	global
6. Write one staten	· ·	to the followi	ng two statements: x=sqr(a); re	eturn(x); Choose from
(a) return(sqr(a))	;		(b) printf("sqr(a)");	
(c) return(a*a*a)	• • • • • • • • • • • • • • • • • • • •		(d) printf("%d",sqr(a));	

which of the following about the C comments is incorrect:
a) Comments can go over multiple lines
b) Comments can start any where in the line
c) A line can contain comments with out any language statements
d) Comments can occur within comments
3. What is the value of y in the following code?
< =7;
/= 0;
f(x=6) y=7;
else y=1;
(a) 7 (b) 0 (c) 1 (d) 6
9. Read the function conv() given below
conv(int t)
nt 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) $x \ge 10 \&\& x \le 50 \mid \mid y = 0$ (b) $x \le 50$

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(c) y!=10 \&\& x>=50
                                                               (d) None of these
11. Which of the following is not an infinite loop?
(a) while(1)\{ ....}
                                                            (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
                                    (d) 2
            (b) 1
                        (c) 0
13. How does the C compiler interpret the following two statements
p=p+x;
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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 followin	g alternatives:	
a. int b. cha	r c. string d. float		
14. '9'			
15. "1 e 02"			
16. 10e05			
17. 15			
18. Read the f	ollowing code		
# define MAX	100		
# define MIN	100		
••••			
if(x>MAX)			
x=1;			
else if(x <min)< td=""><td></td><td></td><td></td></min)<>			
x=-1;			
x=50;			

if the initial	value of x=:	200,what is th	e value after executing this code?
(a) 200	(b) 1	(c) -1	(d) 50
19. A memo are execute		tes is allocated	d to a string declared as char st s then the following two statements
s="Entrance	."		
l=strlen(s);			
what is the	value of I ?		
(a)20	(b)8	(c)9 (d)21
20. Given th	e piece of o	code	
int a[50];			
int *pa;			
ра=а;			
To access th	e 6th elem	ent of the arra	ay which of the following is incorrect?
(a) *(a+5) (b	o) a[5] (c) pa	a[5] (d) *(*pa	+ 5}
21. Conside	r the follow	ing structure:	
struct num r	nam		
{			
int no;			
char name[2	25];		
}			
struct num ı	nam n1[]={{	[12,"Fred"],{1	5,"Martin"},{8,"Peter"},{11,Nicholas"}};

Best website	e for interview	v preparation:	<u>www.prodevelopertu</u>	torial.com
printf("%d%	d",n1[2],no,(*	*(n1 + 2),no) +	+ 1);	
What does t	the above stat	ement print?		
(a) 8,9	(b) 9,9	(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=ir	nt b= 3.5; (d)int a; float	b;a=b=3.5;
23. Regardir	ng the scope o	of the varibles	identify the incorrect;	statement:
	ic variables ard ly initialized to		ly initialized to 0	(b) static variables are are
(c) the addro	_	er variable is ı	not accessible	(d) static variables cannot be initialized
24. cond 1?	cond 2?cond 3	3?:exp 1:exp 2	2:exp 3:exp 4; is equiva	lent 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	3
exp 1 ex	p 2 exp 3 e	exp 4;	
(d) if cond	13		
exp 1;			
else if cor	nd 2 exp 2;		
else if cor	nd 3 exp 3;		
else exp 4	;		
25. The o _l	perator for	exponentiati	on is
(a) **	(b) ^	(c) %	(d) not available
26. Which	of the follo	owing is inva	id
(a) a+=b	(b) a*	=b (c)	a>>=b (d) a**=b
27. What	is y value o	f 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
                   (b)5
                                (c)4
                                              (d)6
30. How many times does the loop iterated?
for(i=0;i=10;i+=2)
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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
              (b)9
(a)10
                             (c)11
                                            (d) infinite
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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;
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
              (b) 6
                            (c) 7
                                          (d) None
37. Consider the following program segment
int n,sum=1;
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```
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)
(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
                            (c) 0
                                          (d) none of these
             (b) 6
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
(a) 6
             (b) 8
                            (c) 1
                                          (d) 3
42. Int *a[5] refers to
(a) array of pointers
                           (b) pointer to an array
                                                         (c) pointer to a pointer
                                                                                         (d) none of
these
```

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43. 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;
```