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TCS, C, C++ Language Paper

1. The C language terminator is
(a) semicolon (b) colon (c) period (d) exclamation mark
2. What is false about the following -- A compound statement is
(a) A set of simple statements brackets
(c) Can be used in place of simple statement statement.
3. What is true about the following C Functions (a) Need not return any value
(c) Should always return a float one value
4. Main must be written as
(a) The first function in the program (c) Last function in the program
(b) Demarcated on either side by curly (d) A C function is not a compound
(b) Should always return an integer (d) Should always return more than
(b) Second function in the program (d) Any where in the program

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5. Which of the following about automatic variables within a function is correct ?
(a) Its type must be declared before using the variable (b) They are local
(c) They are not initialized to zero (d) They are global
6. Write one statement equivalent to the following two statements: `x=sqr(a); return(x);`
Choose from one of the alternatives
(a) `return(sqr(a));` (c) `return(a*a*a);`
(b) `printf("sqr(a)");`
(d) `printf("%d",sqr(a));`

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7. 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

8. What is the value of y in the following code? x=7;

y=0;

if(x=6) y=7;

else y=1;

(a) 7 (b) 0 (c) 1

9. Read the function conv() given below conv(int t)

{

int u;

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```
u=5/9 * (t-32);  
return(u);  
}
```

What is returned

(a) 15 (b) 0 (c) 16.1

(d) 6

10. Which of the following represents true statement either x is in the range of 10 and 50 or y is zero

(a) $x \geq 10 \ \&\& \ x \leq 50 \ || \ y = 0$ (c) $y \neq 10 \ \&\& \ x \geq 50$

11. Which of the following is not an infinite loop ? (a) `while(1){}`

(c) `x=0;`

(b) `x<50`

(d) None of these

(b) `for(;;){...}`

(d) `# define TRUE 0`

(d) 29

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```
do{ /*x unaltered within the loop*/ ... 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

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13. How does the C compiler interpret the following two statements $p=p+x$;
 $q=q+y$;

.....}while($x ==$

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(a) $p = p+x$; $p=p+x/q=q+y$;

(b) $p=p+xq=q+y$;

(c) $p = p+xq$;

(d) $q=q+y$;

$q=q+y$;

For questions 14,15,16,17 use the following alternatives: a. int b. char c. string d. float

14. '9'

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15. "1 e 02"

16. 10e05

17. 15

18. Read the following code # 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

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19. A memory of 20 bytes is allocated to a string declared as char *s then the following two statements are executed:

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```
s="Entrance" l=strlen(s);  
what is the value of l ? (a)20 (b)8
```

20. Given the piece of code
int a[50];
int *pa;
pa=a;

(c)9

(d)21



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To access the 6th element of the array which of the following (a) *(a+5) (b) a[5] (c) pa[5] (d) *(*pa + 5)

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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 incorrect expression

(a) a=b=3=4; (b) a=b=c=d=0; (c) float a=int b= 3.5; (d) int a; float b;a=b=3.5;

23. Regarding the scope of the variables; identify the incorrect statement:

(a) automatic variables are automatically initialized to 0 (b) static variables are automatically 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;

is incorrect?



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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;

else if cond 3

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(c) if cond 1 && cond 2 && cond 3 exp 1 |exp 2|exp 3|exp 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
(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)

(d) a**=b

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else y=8; (a)9 (b)8 (c)6 (d)7

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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 interest for 1 to 4 years

(c) computes simple interest for four year 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

30. How many times does the loop iterated ? for(i=0;i=10;i+=2)

```
printf("Hi\\n");  
(a)10 (b) 2 (c) 5
```

(b) computes amount on compound (d) computes compound interest for

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(d)6

(d) None of these

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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;} 1){if(expn 2)continue;...}
- (c) do{..if(expn 1)continue;..}while(expn 2); 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

34.Pick out the odd one out

- (a) malloc() (b) calloc()

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35. Consider the following program main()
{

(b) while(!expn (d) while(!expn

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(d) infinite

(c) free()

(d) realloc()



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```
int *b;  
b=&a[2];  
}
```

The value of b[-1] is (a) 1 (b) 3

36. # define prod(a,b)=a*b main()
{
int x=2;

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```
int y=3; printf("%d",prod(x+2,y-10)); }
```

the output of the program is (a) 8 (b) 6

(c) -6

(d) none

```
int a[5]={1,3,6,7,0};
```

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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

38. Identify the incorrect one

```
1.if(c=1)
```

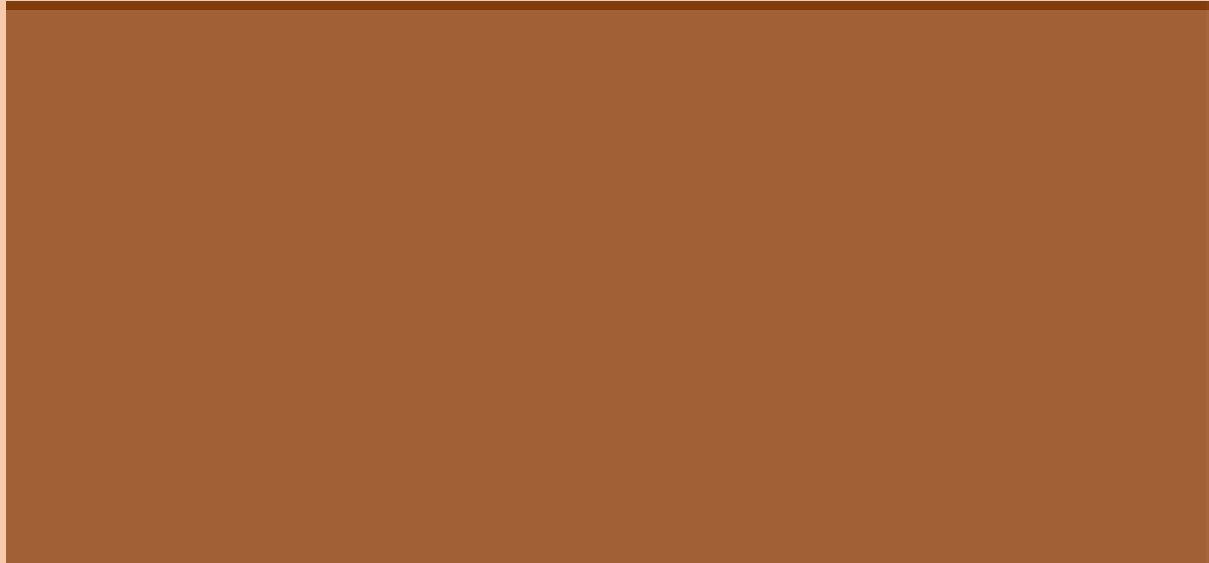
(d) None of these

(c) 7

(d) None

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2.if(c!=3)

39. The format specified for hexa decimal is (a) %d (b) %o (c) %x

40. Find the output of the following program main()

```
{  
int x=5, *p;  
  
p=&x  
printf("%d",++*p);  
}  
(a) 5 (b) 6 (c) 0
```

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);
```

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3.if(a<b)then

4.if(c==1)

(a) 1 only (b) 1&3

(c) 3 only

(d) All of the above

(d) %u

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(d) none of these



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}

The final value of x is (a) 6 (b) 8

42. Int *a[5] refers to

(a) array of pointers (d) none of these

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(c) 1

(d) 3

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;

```
}
```

(b) pointer to an array

(c) pointer to a pointer

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```
} TUDAT;
```

```
float n8;
```

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