

Placement paper of TCS 1-5

TCS

2) What is the output of the following program

```
main ()
{
unsigned int i;

for (i = 10; i >= 0; i--)
printf("%d, i);
}
```

- a) prints numbers 10 - 0 b) prints nos 10 - 1
c) d) goes into infinite loop

11) What is the value of the following expression?

```
i = 1;
i <<= 1 % 2
```

- a) 2 b)
c) 1 d) 0

12) What is the value of the following expression?

```
i = 1;
i = (i <<= 1 % 2)
```

- a) 2 b)
c) 0 d) erroneous syntax

What is the result?

```
13) *A + 1 - *A + 3
```

- a) - b) -2
c) 4 d) none of the above

```
14) &A[5] - &A[1]?
```

- a) b)
c) 4 d)

15) C allows

- a) only call by value
b) only call by reference
c) both
d) only call by value and sometimes call by reference

16) The following statement is

The size of a struct is always equal to the sum

of the sizes of its members

- a) valid b) invalid c) can't say

17) How many x's are printed?

```
for (i = 0, j = 10; i < j; i++, j--)
```

```
printf(x);
```

- a) 10 b) 5 c) 4 d) none

18) output?

```
main ()
{
int i = 2, j = 3, k = 1;
swap (i, j)
printf("%d %d, i, j);
}
swap (int i, int j)
{
int temp;
temp = i; i = j; j = temp;
}
```

YOU KNOW THE ANSWER

19) main ()

```
{
int i = 2;
twice (2);
printf("%d, i);
}
twice (int i)
{
bullshit
}
```

```
int i, b[] = {1, 2, 3, 4, 5}, *p;
```

```
p = b;
```

```
++*p;
```

```
p += 2;
```

20) What is the value of *p;

- a) 2 b) 3 c) 4 d) 5

21) What is the value of (p - (&p - 2))?

- a) b) 2 c) d)

23) x = fopen (b, c)

what is b?

a) pointer to a character array which contains the filename

b) filename within double quotes

c) can be anyone of the above

d) none

24) x = malloc (y). Which of the following statements is correct.

a) x is the size of the memory allocated

b) y points to the memory allocated

c) x points to the memory allocated

d) none of the above

25) which is the valid declaration?

a) #typedef struct { int i; } in;

b) typedef struct in {int i;};

c) #typedef struct int {int i;};

d) typedef struct {int i; } in;

26) union {

```
int no;
```

```
char ch;
```

```
} u;
```

What is the output?

```
u.ch = '2';
```

```
u.no = 0;
```

```
printf("%d, u.ch);
```

- a) 2 b) 0 c) null character d) none

27) Which of these are valid declarations?

i) union { ii) union u_tag {

```
int i; int i;
```

```
int j; int j;
```

```
};};
```

iii) union { iv) union {

```
int i; int i;
```

```
int j; int j;
```

```
FILE k; } u;
```

```
};
```

a) all correct b) i, ii, iv

c) ii & iv d)

28) p and q are pointers to the same type of data items.

Which of these are valid?

i) *(p+q)

ii) *(p-q)

iii) *p - *q

a) all

b)

c) iii is valid sometimes

29) which are valid?

i) pointers can be added

ii) pointers can be subtracted

iii) integers can be added to pointers

a) all correct b) only i and ii

30) int *i;

```
float *f;
```

```
char *c;
```

which are the valid castings?

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