

ABB - Placement Paper

1. What would be the output of the following program.

```
#include <stdio.h>
main()
{
    extern int a;
    printf("%d",a);
}
int a=20;
```

- (a) 20 (b) 0 (c) garbage value (d) error!!

2. What would be the output of the following program.

```
main()
{
    int a[5]={2,3};
    printf("\n %d %d %d",a[2],a[3],a[4]);
}
```

- (a) garbage value (b) 2 3 3 (c) 3 2 2 (d) 0 0 0

3. What would be the output of the following program.

```
main()
{
    inti=-3,j=2,k=0,m;
    m=++i&&++j|++k;
    printf("\n %d %d %d %d",i,j,k,m);
}
```

- (a) -2 3 0 1 (b) -3 2 0 1 (c) -2 3 1 1 (d) error

4. What would be the output of the following program.

```
main()
{
    int a,b;
    a=sumdig(123);
    b=sumdig(123);
    printf("%d %d",a,b);
}
sumdig(int n)
{
    static int s=0;
    int d;
    if(n!=0)
    {
        d=n%10;
        n=(n-d)/10;
        s=s+d;
        sumdig(n);
    }
    else return(s);
}
```

- (a) 12 6 (b) 6 12 (c) 3 15 (d) error

5. What would be the output of the following program.

```
#define CUBE(x) (x*x*x)
main()
{
    int a,b=3;
    a=CUBE(b++);
    printf("\n %d %d",a,b);
}
```

- (a) 64 4 (b) 27 4 (c) 27 6 (d) 64 6

6. What would be the output of the following program.

```
main()
{
    const int x=get();
    printf("%d",x);
}
get()
{
    return(20);
}
```

- (a) 20 (b) garbage value (c) error (d) 0

7. A function has this prototype void f1(int **x),
How will you call this function?

- (a) int **a; (b) int a; (c) int *a; (d) int a=5;
f1(a); f1(&a); f1(&a); f1(&&a);

8. Point out the error, if any, in the for loop

```
main()
{
    int l=1;
    for(;;)
    {
        printf("%d",l++);
        if(l>10)
            break;
    }
}
```

- (a) The condition in the for loop is a must (b) The two semicolons should be dropped
(c) The for loop should be replaced by a while loop (d) No error

9. Can the following piece of code be executed?

```
int main(void)
{
    char strA[10]="compile",strB[10];
    my_strcpy(strB,strA);
    puts(strB);
}
char * my_strcpy(char *destination,char *source)
{
    char *p=destination;
    while(*source!='\0')
    {
        *p++=*source++;
    }
    *p='\0';
    return destination;
}
```

- (a) Compilation will only give a warning but will proceed to execute & will display "compile"
(b) The compilation error char *(char *,char *) differs in levels of indirection from 'int()' will occur
(c) Yes & it will print compile on the screen (d) None of the above

10. What would be the output of the following program.

```
#include <stdio.h>
main()
{
    char str[5]="fast";
    static char *ptr_to_array = str;
```

```

        printf("%s",ptr_to_array);
    }

```

- (a) Compilation will only give a warning but will proceed to execute & will display "fast"
 (b) display "fast" on screen (c) will give a compilation error (d) none of the above

11. What would be the output of the following program.

```

main()
{
    int num,*p;
    num=5;
    p=&num;
    printf("%d",*p);
}

```

- (a) 6 (b) 5 (c) junk value (d) compilation error

12. What would be the output of the following program.

```

main()
{
    int a[3]={2,3,4};
    char *p;
    p=a;
    p=(char*)((int *)p+1);
    printf("%d",p);
}

```

- (a) 2 (b) 0 (c) junk value (d) 3

13. What would be the output of the following program.

```

main()
{
    int i=10;
    fn(i);
    printf("%d",i);
}
fn(int i)
{
    return ++i;
}

```

- (a) 10 (b) 11 (c) 12 (d) Compilation error

14. What will be the value of i & j after the loop is executed?

- (a) i=4,j= 24 (b) i=24,j= 24 (c) i=25,j= 25

```

for(i=0,j=0;i<5,j<25;i++,j++)
    (d) i=5,j=25

```

15. What would be the output of the following program.

```

main()
{
    int i,j;
    i=10;
    j=sizeof(++i);
    printf("%d",i);
}

```

- (a) 11 (b) 10 (c) 4 (d) compilation error

16. What would be the output of the following program.

```

main()
{
    int i=7;
    printf("%d\n",i++*i++);
}

```

- (a) 49 (b) 56 (c) 72 (d) compilation error

17. What will the printf print?

