

## Programming Sample short question

Q 1. What is the output of the following programme?

```
#include<stdio.h>
main(){
    int a=5;
    printf("\%d, %d", ++a, a++);
}
```

- (a) 5 7 (b) 7 5  
(c) 6 7 (d) 7 7

**Solution:**

- (a) (b)✓ (c) (d)

Q 2. What is the output of the following programme?

```
#include<stdio.h>
main(){
    char a='c'; // ASCII code of char 'c' is 99
    printf("%d", printf("MTechDS: %d",a));
}
```

- (a) 99 (b) 99 MTechDS  
(c) MTechDS: 9911 (d) 11 MTechDS: 99

**Solution:**

- (a) (b) (c)✓ (d)

Q 3. What is the output of the following programme?

```
#include<stdio.h>
main(){
    if(1){
        if(0){
            printf("hello ");
        }
        else{
            printf("world ");
        }
    } if(2){
        if(1){
            printf("hello ");
        } else{
            printf("world ");
        }
    } else{
        printf("Thank you");
    }
}
```

- (a) hello hello (b) hello world  
(c) world hello (d) world world

**Solution:**

- (a) (b) (c)✓ (d)

Q 4. What is the output of the following programme?

```
#include<stdio.h>
main(){
    int i=5;
    for( ; i ; ){
        printf("%d ",i);
        i--;
    }
}
```

- (a) 12345                      (b) 54321  
(c) Runtime Error      (d) Compilation Error

**Solution:**

- (a) (b)✓ (c) (d)

Q 5. What is the functionality of the following programme?

```
#include<stdio.h>
main(){
    int i,a[100],n;
    scanf("%d",&n);
    for(i=0;i<n;i++){
        scanf("%d",&a[i]);
    }
    for(i=0;i<n/2;i++){
        a[i]=a[i]+a[n-1-i];
        a[n-1-i]=a[i]a[n-1-i];
        a[i]=a[i]a[n-1-i];
    }
    for(i=0;i<n;i++){
        printf("%d ",a[i]);
    }
}
```

- (a) Sort the array a[] in descending order      (b) Sort the array a[] in ascending order  
(c) Reverse the elements of array                      (d) None of above

**Solution:**

- (a) (b) (c)✓ (d)

Q 6. What is the output of the following programme?

```
#include<stdio.h>
main(){
    int a=123, b=000;
    if(a && b) printf("world");
    else printf(\hello");
}
```

- (a) hello                      (b) world  
(c) helloworld      (d) worldhello

**Solution:**

- (a) (b)✓ (c) (d)

Q 7. What is the output of the following programme?

```
#include<stdio.h>
main(){
    int i,a[100],n;
    scanf("%d",&n);
    for(i=0;i<n;i++){
        scanf("%d",a);
        a[n1i]=a[0];
    }
    for(i=1;i<n;i++){
        printf("%d",a[i]);
    }
}
```

If your input is 4 1 2 3 4, the out of the programme is

- (a) 1 2 3 4 (b) 4 1 2 3 4  
(c) 4 3 2 1 (d) 4 4 3 2 1

**Solution:**

- (a) (b) (c)✓ (d)