

## Preprocessor Directives – 1

1. What will be the output of the following C code?

```
#include<stdio.h>
```

```
#define max 100
```

```
main()
```

```
{
```

```
    #ifdef max
```

```
    printf("hello");
```

```
}
```

a) 100

b) hello

c) “hello”

d) error

2. \_\_\_\_\_ is the preprocessor directive which is used to end the scope of #ifdef.

a) #elif

b) #ifndef

c) #endif

d) #if

3. What will be the output of the following C code?

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    #ifndef max
```

```
    printf("hello");
```

```
    #endif
```

```
    printf("hi");
```

```
}
```

- a) hello
- b) hellohi
- c) error
- d) hi

4. What will be the output of the following C code?

```
#include<stdio.h>
```

```
#define san 557
```

```
int main()
```

```
{
```

```
    #ifndef san
```

```
        printf("yes");
```

```
    #endif
```

```
        printf("no");
```

```
}
```

- a) error
- b) yes
- c) no
- d) yesno

5. The preprocessor directive which checks whether a constant expression results in a zero or non-zero value \_\_\_\_\_

- a) #if
- b) #ifdef
- c) #undef
- d) #ifndef

7. The preprocessor directive which is used to remove the definition of an identifier which was previously defined with #define?

- a) #ifdef
- b) #undef
- c) #ifndef
- d) #def

8. What will be the output of the following C code?

```
#include<stdio.h>

#define hello 10

void main()

{

    printf("%d",hello);

    #undef hello

    printf("%d",hello);

}
```

- a) 10
- b) hello
- c) error
- d) 1010

9. What will be the output of the following C code?

```
#include <stdio.h>

#define a 2

main()

{

    int r;

    #define a 5

    r=a*2;

    printf("%d",r);

}
```

- a) 10
- b) 4
- c) 2
- d) 5

10. What will be the output of the following C code if the value of 'p' is 10 and that of 'q' is 15?

```
#include<stdio.h>

int main()
{
    int p,q;

    printf("Enter two numbers\n");

    scanf("%d",&p);

    scanf("%d",&q);

    #if(4<2)

    printf("%d",p);

    #elif(2>-1)

    printf("%d",q);

    #else

    printf("bye");

    #endif
}
```

- a) 10
- b) 15
- c) bye
- d) error

2. What will be the output of the following C code?

```
#include<stdio.h>

#define hello

main()
{

    #ifdef hello

    #define hi 4
```

```
#else  
  
#define hi 5  
  
#endif  
  
printf("%d",hi);  
  
}
```

- a) 4
- b) 5
- c) 45
- d) error

3. The purpose of the preprocessor directive `#error` is that \_\_\_\_\_

- a) It rectifies any error present in the code
- b) It rectifies only the first error which occurs in the code
- c) It causes the preprocessor to report a fatal error
- d) It causes the preprocessor to ignore an error

4. What will be the output of the following C code?

```
#include<stdio.h>  
  
#define max 20  
  
main()  
{  
    #ifndef max  
    #define min 10  
    #else  
    #define min 30  
    #endif  
    printf("%d",min);  
}
```

- a) 10
- b) 20
- c) 30
- d) error

5. What will be the output of the following C code?

```
#include<stdio.h>

#define hello 10

main()
{
    #ifdef hello

    #undef hello

    #define hello 100

    #else

    #define hello 200

    #endif

    printf("%d",hello);
}
```

- a) Error
- b) 10
- c) 100
- d) 200

6. What will be the output of the following C code?

```
#include<stdio.h>

#define sf 10

main()
{
    if(sf==100)
```

```
    printf("good");  
else  
{  
    printf("bad");  
    sf=100;  
}  
printf("%d",sf);  
}
```

- a) 100
- b) bad
- c) 10
- d) error

7. What will be the output of the following C code?

```
#include<stdio.h>  
  
void f()  
{  
    #define sf 100  
    printf("%d",sf);  
}  
  
int main()  
{  
    #define sf 99;  
    f();  
    printf("%d",sf);  
}
```

- a) error
- b) 100
- c) 99
- d) 10099

8. What will be the output of the following C code?

```
#include<stdio.h>

#define INDIA 1

#define US 2

#define CC US

main()

{

    #if CC==INDIA

        printf("Rupee");

    #elif CC==US

        printf("Dollar");

    #else

        printf("Euro");

    #endif

}
```

- a) Euro
- b) Rupee
- c) Dollar
- d) Error

9. What will be the output of the following C code?

```
#define sqr(x) x*x

main()

{

    int a1;

    a1=25/sqr(5);

    printf("%d",a1);

}
```



- a) 25
- b) 1
- c) 5
- d) error

10. Which of the following is not a preprocessor directive?

- a) #error
- b) #pragma
- c) #if
- d) #ifndef