Conditional Inclusion

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define SYSTEM 20
3.  int main()
4.  {
5.      int a = 20;
6.      #if SYSTEM == a
7.      printf("HELLO ");
8.      #endif
9.      #if SYSTEM == 20
10.     printf("WORLD\n");
11.     #endif
12. }
```

a) HELLO
b) WORLD
c) HELLO WORLD
d) No Output

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define Cprog
3.  int main()
4.  {
5.      int a = 2;
6.      #ifdef Cprog
7.      a = 1;
8.      printf("%d", Cprog);
```

```
9.  }
```

a) No output on execution
b) Output as 1
c) Output as 2
d) Compile time error

3. The “else if” in conditional inclusion is written by?
a) #else if
b) #elseif
c) #elsif
d) #elif

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define COLD
3.  int main()
4.  {
5.      #ifdef COLD
6.      printf("COLD\t");
7.      #undef COLD
8.      #endif
9.      #ifdef COLD
10.     printf("HOT\t");
11.     #endif
12. }
```

a) HOT
b) COLD
c) COLD HOT
d) No Output

Which of the following sequences are unaccepted in C language?

a)

#if

#else

#endif

b)

#if

#elif

#endif

c)

#if

#if

#endif

d)

#if

#undef

#endif

In a conditional inclusion, if the condition that comes after the if is true, then what will happen during compilation?

a) Then the code up to the following #else or #elif or #endif is compiled

b) Then the code up to the following #endif is compiled even if #else or #elif is present

c) Then the code up to the following #eliif is compiled

d) None of the mentioned

Conditional inclusion can be used for _____

a) Preventing multiple declarations of a variable

b) Check for existence of a variable and doing something if it exists

c) Preventing multiple declarations of same function

d) All of the mentioned

The #elif directive cannot appear after the preprocessor #else directive.
a) True
b) False

For each #if, #ifdef, and #ifndef directive.
a) There are zero or more #elif directives
b) Zero or one #else directive
c) One matching #endif directive
d) All of the mentioned

2. The #else directive is used for _____
a) Conditionally include source text if the previous #if, #ifdef, #ifndef, or #elif test fails
b) Conditionally include source text if a macro name is not defined
c) Conditionally include source text if a macro name is defined
d) Ending conditional text

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define MIN 0
3.  #if MIN
4.  #define MAX 10
5.  #endif
6.  int main()
7.  {
8.      printf("%d %d\n", MAX, MIN);
9.      return 0;
10. }
```

a) 10 0
b) Compile time error
c) Undefined behaviour
d) None of the mentioned

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define MIN 0
3.  #ifdef MIN
4.  #define MAX 10
5.  #endif
6.  int main()
7.  {
8.      printf("%d %d\n", MAX, MIN);
9.      return 0;
10. }
```

a) 10 0
b) Compile time error
c) Undefined behaviour
d) None of the mentioned

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define MIN 0
3.  #if defined(MIN) + defined(MAX)
4.  #define MAX 10
5.  #endif
6.  int main()
7.  {
8.      printf("%d %d\n", MAX, MIN);
9.      return 0;
10. }
```

a) 10 0
b) Compile time error

c) Undefined behaviour
d) Somegarbagevalue 0

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define MIN 0
3.  #if defined(MIN) - (!defined(MAX))
4.  #define MAX 10
5.  #endif
6.  int main()
7.  {
8.      printf("%d %d\n", MAX, MIN);
9.      return 0;
10. }
```

a) 10 0
b) Compile time error
c) Undefined behaviour
d) Somegarbagevalue 0

What will be the output of the following C code?

```
1.  #include <stdio.h>
2.  #define MIN 0
3.  #ifdef(MIN)
4.  #define MAX 10
5.  #endif
6.  int main()
7.  {
8.      printf("%d %d\n", MAX, MIN);
```

```
9.      return 0;
10.  }
```

a) 10 0
b) Compile time error
c) Run time error
d) Preprocessor error

What will be the output of the following C code?

```
1.   #include <stdio.h>
2.   #define MIN 0);
3.   #ifdef MIN
4.   #define MAX 10
5.   #endif
6.   int main()
7.   {
8.      printf("%d %d\n", MAX, MIN
9.      return 0;
10.  }
```

a) 10 0
b) Compile time error due to illegal syntax for printf
c) Undefined behaviour
d) Compile time error due to illegal MIN value