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

1. #include <stdio.h>
2. const int a = 1, b = 2;
3. int main()
4. {
5. int x = 1;
6. switch (x)
7. {
8. case a:
9. printf("yes ");
10. case b:
11. printf("no**\n**");
12. **break**;
13. }
14. }

a) yes no  
b) yes  
c) no  
d) Compile time error

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

1. #include <stdio.h>
2. void main()
3. {
4. char a = 'A';
5. char b = 'B';
6. int c = a + b % 3 - 3 \* 2;
7. printf("%d**\n**", c);
8. }

a) 65  
b) 58  
c) 64  
d) 59

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

1. #include <stdio.h>
2. int main()
3. {
4. switch (printf("Do"))
5. {
6. case 1:
7. printf("First**\n**");
8. **break**;
9. case 2:
10. printf("Second**\n**");
11. **break**;
12. default:
13. printf("Default**\n**");
14. **break**;
15. }
16. }

a) Do  
b) DoFirst  
c) DoSecond  
d) DoDefault

4. Comment on the output of the following C code.

1. #include <stdio.h>
2. int main()
3. {
4. int a = 1;
5. switch (a)
6. case 1:
7. printf("%d", a);
8. case 2:
9. printf("%d", a);
10. case 3:
11. printf("%d", a);
12. default:
13. printf("%d", a);
14. }

a) No error, output is 1111  
b) No error, output is 1  
c) Compile time error, no break statements  
d) Compile time error, case label outside switch statement

5. Which datatype can accept the switch statement?  
a) int  
b) char  
c) long  
d) all of the mentioned

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

1. #include <stdio.h>
2. int main()
3. {
4. int a = 1;
5. switch (a)
6. {
7. case a:
8. printf("Case A ");
9. default:
10. printf("Default");
11. }
12. }

a) Output: Case A  
b) Output: Default  
c) Output: Case A Default  
d) Compile time error

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

1. #include <stdio.h>
2. switch (ch)
3. {
4. case 'a':
5. case 'A':
6. printf("true");
7. }

a) if (ch == ‘a’ && ch == ‘A’) printf(“true”);  
b)

if (ch == 'a')

if (ch == 'a') printf("true");

c) if (ch == ‘a’ || ch == ‘A’) printf(“true”);  
d) none of the mentioned

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

1. #include <stdio.h>
2. void main()
3. {
4. int x = 5;
5. if (x < 1)
6. printf("hello");
7. if (x == 5)
8. printf("hi");
9. else
10. printf("no");
11. }

a) hi  
b) hello  
c) no  
d) error

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

1. #include <stdio.h>
2. int x;
3. void main()
4. {
5. if (x)
6. printf("hi");
7. else
8. printf("how are u");
9. }

a) hi  
b) how are you  
c) compile time error  
d) error

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

1. #include <stdio.h>
2. void main()
3. {
4. int x = 5;
5. if (**true**);
6. printf("hello");
7. }

a) It will display hello  
b) It will throw an error  
c) Nothing will be displayed  
d) Compiler dependent

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

1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. if (x == 0)
6. printf("hi");
7. else
8. printf("how are u");
9. printf("hello");
10. }

a) hi  
b) how are you  
c) hello  
d) hihello

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

1. #include <stdio.h>
2. void main()
3. {
4. int x = 5;
5. if (x < 1);
6. printf("Hello");
8. }

a) Nothing  
b) Run time error  
c) Hello  
d) Varies

13. What will be the output of the following C code? (Assuming that we have entered the value 1 in the standard input)

1. #include <stdio.h>
2. void main()
3. {
4. double ch;
5. printf("enter a value between 1 to 2:");
6. scanf("%lf", &ch);
7. switch (ch)
8. {
9. case 1:
10. printf("1");
11. **break**;
12. case 2:
13. printf("2");
14. **break**;
15. }
16. }

a) Compile time error  
b) 1  
c) 2  
d) Varies

14. What will be the output of the following C code? (Assuming that we have entered the value 1 in the standard input)

1. #include <stdio.h>
2. void main()
3. {
4. char \*ch;
5. printf("enter a value between 1 to 3:");
6. scanf("%s", ch);
7. switch (ch)
8. {
9. case "1":
10. printf("1");
11. **break**;
12. case "2":
13. printf("2");
14. **break**;
15. }
16. }

a) 1  
b) 2  
c) Compile time error  
d) No Compile time error

15. What will be the output of the following C code? (Assuming that we have entered the value 1 in the standard input)

1. #include <stdio.h>
2. void main()
3. {
4. int ch;
5. printf("enter a value between 1 to 2:");
6. scanf("%d", &ch);
7. switch (ch)
8. {
9. case 1:
10. printf("1**\n**");
11. default:
12. printf("2**\n**");
13. }
14. }

a) 1  
b) 2  
c) 1 2  
d) Run time error

16. What will be the output of the following C code? (Assuming that we have entered the value 2 in the standard input)

1. #include <stdio.h>
2. void main()
3. {
4. int ch;
5. printf("enter a value between 1 to 2:");
6. scanf("%d", &ch);
7. switch (ch)
8. {
9. case 1:
10. printf("1**\n**");
11. **break**;
12. printf("Hi");
13. default:
14. printf("2**\n**");
15. }
16. }

a) 1  
b) Hi 2  
c) Run time error  
d) 2

17. What will be the output of the following C code? (Assuming that we have entered the value 1 in the standard input)

1. #include <stdio.h>
2. void main()
3. {
4. int ch;
5. printf("enter a value between 1 to 2:");
6. scanf("%d", &ch);
7. switch (ch, ch + 1)
8. {
9. case 1:
10. printf("1**\n**");
11. **break**;
12. case 2:
13. printf("2");
14. **break**;
15. }
16. }

a) 1  
b) 2  
c) 3  
d) Run time error

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

1. #include <stdio.h>
2. int main()
3. {
4. int x = 1;
5. if (x > 0)
6. printf("inside if**\n**");
7. else if (x > 0)
8. printf("inside elseif**\n**");
9. }

a) inside if  
b) inside elseif  
c)inside if

inside elseif

d) compile time error

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

1. #include <stdio.h>
2. int main()
3. {
4. int x = 0;
5. if (x++)
6. printf("true**\n**");
7. else if (x == 1)
8. printf("false**\n**");
9. }

a) true  
b) false  
c) compile time error  
d) undefined behaviour

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

1. #include <stdio.h>
2. int main()
3. {
4. int x = 0;
5. if (x == 1)
6. if (x == 0)
7. printf("inside if**\n**");
8. else
9. printf("inside else if**\n**");
10. else
11. printf("inside else**\n**");
12. }

a) inside if  
b) inside else if  
c) inside else  
d) compile time error

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

1. #include <stdio.h>
2. int main()
3. {
4. int x = 0;
5. if (x == 0)
6. printf("true, ");
7. else if (x = 10)
8. printf("false, ");
9. printf("%d**\n**", x);
10. }

a) false, 0  
b) true, 0  
c) true, 10  
d) compile time error

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

1. #include <stdio.h>
2. int main()
3. {
4. int x = 0;
5. if (x == 1)
6. if (x >= 0)
7. printf("true**\n**");
8. else
9. printf("false**\n**");
10. }

a) true  
b) false  
c) Depends on the compiler  
d) No print statement

23. The C statement “”if (a == 1 || b == 2) {}”” can be re-written as \_\_\_\_\_\_\_\_\_\_\_  
a)

if (a == 1)

if (b == 2){}

b)

if (a == 1){}

if (b == 2){}

c)

if (a == 1){}

else if (b == 2){}

d) none of the mentioned

24. Which of the following is an invalid if-else statement?  
a) if (if (a == 1)){}  
b) if (func1 (a)){}  
c) if (a){}  
d) if ((char) a){}

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

1. #include <stdio.h>
2. int main()
3. {
4. int a = 1;
5. if (a--)
6. printf("True");
7. if (a++)
8. printf("False");
9. }

a) True  
b) False  
c) True False  
d) No Output

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

1. #include <stdio.h>
2. int main()
3. {
4. int a = 1;
5. if (a)
6. printf("All is Well ");
7. printf("I am Well**\n**");
8. else
9. printf("I am not a River**\n**");
10. }

a) Output will be All is Well I am Well  
b) Output will be I am Well I am not a River  
c) Output will be I am Well  
d) Compile time errors during compilation

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

1. #include <stdio.h>
2. int main()
3. {
4. if (printf("%d", printf(")))
5. printf("We are Happy");
6. else if (printf("1"))
7. printf("We are Sad");
8. }

a) 0We are Happy  
b) 1We are Happy  
c) 1We are Sad  
d) compile time error

28. Which of the following is not a valid variable name declaration?  
a) int \_\_a3;  
b) int \_\_3a;  
c) int \_\_A3;  
d) None of the mentioned

29. Which of the following is not a valid variable name declaration?  
a) int \_a3;  
b) int a\_3;  
c) int 3\_a;  
d) int \_3a

30. Why do variable names beginning with the underscore is not encouraged?  
a) It is not standardized  
b) To avoid conflicts since assemblers and loaders use such names  
c) To avoid conflicts since library routines use such names  
d) To avoid conflicts with environment variables of an operating system

31. All keywords in C are in \_\_\_\_\_\_\_\_\_\_\_\_  
a) LowerCase letters  
b) UpperCase letters  
c) CamelCase letters  
d) None of the mentioned

32. Variable name resolution (number of significant characters for the uniqueness of variable) depends on \_\_\_\_\_\_\_\_\_\_\_  
a) Compiler and linker implementations  
b) Assemblers and loaders implementations  
c) C language  
d) None of the mentioned

33. Which of the following is not a valid C variable name?  
a) int number;  
b) float rate;  
c) int variable\_count;  
d) int $main;

34. Which of the following is true for variable names in C?  
a) They can contain alphanumeric characters as well as special characters  
b) None

c) Variable names cannot start with a digit  
d) Variable can be of any length

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

1. #include <stdio.h>
2. int main()
3. {
4. int a[5] = {1, 2, 3, 4, 5};
5. int i;
6. for (i = 0; i < 5; i++)
7. if ((char)a[i] == '5')
8. printf("%d**\n**", a[i]);
9. else
10. printf("FAIL**\n**");
11. }

a) The compiler will flag an error  
b) The program will compile and print the output 5  
c) The program will compile and print the ASCII value of 5  
d) The program will compile and print FAIL for 5 times

36. The format identifier ‘%i’ is also used for \_\_\_\_\_ data type.  
a) char  
b) int  
c) float  
d) double

37. Which data type is most suitable for storing a number 65000 in a 32-bit system?  
a) signed short  
b) unsigned short  
c) long  
d) int

38. Which of the following is a User-defined data type?  
a) typedef int Boolean;  
b) typedef enum {Mon, Tue, Wed, Thu, Fri} Workdays;  
c) struct {char name[10], int age};  
d) all of the mentioned

39. What is the size of an int data type?  
a) 4 Bytes  
b) 8 Bytes  
c) Depends on the system/compiler  
d) Cannot be determined

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

1. #include <stdio.h>
2. int main()
3. {
4. signed char chr;
5. chr = 128;
6. printf("%d**\n**", chr);
7. return 0;
8. }

a) 128  
b) -128  
c) Depends on the compiler  
d) None of the mentioned

41. What is short int in C programming?  
a) The basic data type of C  
b) Qualifier  
c) Short is the qualifier and int is the basic data type  
d) All of the mentioned

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

1. #include <stdio.h>
2. void main()
3. {
4. int b = 5 - 4 + 2 \* 5;
5. printf("%d", b);
6. }

a) 25  
b) -5  
c) 11  
d) 16

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

1. #include <stdio.h>
2. void main()
3. {
4. int b = 5 & 4 & 6;
5. printf("%d", b);
6. }

a) 5  
b) 6  
c) 3  
d) 4

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

1. #include <stdio.h>
2. void main()
3. {
4. int b = 5 & 4 | 6;
5. printf("%d", b);
6. }

a) 6  
b) 4  
c) 1  
d) 0

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

1. #include <stdio.h>
2. void main()
3. {
4. int b = 5 + 7 \* 4 - 9 \* (3, 2);
5. printf("%d", b);
6. }

a) 6  
b) 15  
c) 13  
d) 21

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

1. #include <stdio.h>
2. void main()
3. {
4. int h = 8;
5. int b = (h++, h++);
6. printf("%d%d**\n**", b, h);
7. }

a) 10 10  
b) 10 9  
c) 9 10  
d) 8 10

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

1. #include <stdio.h>
2. void main()
3. {
4. int h = 8;
5. int b = h++ + h++ + h++;
6. printf("%d**\n**", h);
7. }

a) 9  
b) 10  
c) 12  
d) 11

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

1. #include <stdio.h>
2. void main()
3. {
4. int h = 8;
5. int b = 4 \* 6 + 3 \* 4 < 3 ? 4 : 3;
6. printf("%d**\n**", b);
7. }

a) 3  
b) 33  
c) 34  
d) Run time error

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

1. #include <stdio.h>
2. void main()
3. {
4. int a = 2 + 3 - 4 + 8 - 5 % 4;
5. printf("%d**\n**", a);
6. }

a) 0  
b) 8  
c) 11  
d) 9

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

1. #include <stdio.h>
2. void main()
3. {
4. char a = '0';
5. char b = 'm';
6. int c = a && b || '1';
7. printf("%d**\n**", c);
8. }

a) 0  
b) a  
c) 1  
d) m