**1 MARK MCQ**

1. Consider the value is (1)10. What will be the single-precision floating-point representation of the given value?
2. 00111111100000000000000000000000
3. 10111111100000000000000000000000
4. 00111011100000000000000000000000
5. 00111111110000000000000000000000
6. The general form of floating point is? M is Mantissa B is Base and e is actual exponent.
7. ±M \* B ±e
8. M \* Be
9. M \* -B ±e
10. -M \* B -e
11. The correct scientific conversion of 928000000000000.0 x 100 is
12. 9.280000000000000 x 1014
13. 9.280000000000000 x 10-14
14. 9.280000000000000 x 1013
15. None of the above
16. Binary conversion of -12 in 8 bits is?
17. 00001100
18. 11110011
19. 11110100
20. 10111000
21. Binary conversion of 12.25 is?
22. 00001100.01
23. 01010000.10
24. 00001100.10
25. None of the above
26. Consider a value 0.25, what will be the single-precision floating-point representation of given value?
27. 00111110100000000000000000000010
28. 00111100100000000000000000000000
29. 00110110100000000000000000000000
30. 00111110100000000000000000000000
31. If the Biased exponent field size is n bit then the Bias will be?
32. 2n -1
33. 2n-1 -1
34. 2n/2-1
35. 2n-1
36. Biased exponent is?
37. Actual exponent + Bias
38. Mantissa x Bias
39. e – 127
40. none
41. Range of float data type
42. 1.17 x e-38 to 3.4 x e38
43. 3.4 x e-38 to 3.4 x e38
44. 2.2 x e-38 to 3.4 x e38
45. 1.17 x e-38 to 2.2 x e38
46. The length of Mantissa in single-precision floating-point is
47. 23 bits
48. 8 bits
49. 11 bits
50. 52 bits
51. The length of Mantissa in double-precision floating-point is
52. 23 bits
53. 52 bits
54. 11 bits
55. 8 bits
56. The length of exponent in double-precision floating-point is
57. 23 bits
58. 52 bits
59. 11 bits
60. 8 bits
61. The length of exponent in single-precision floating-point is
62. 23 bits
63. 52 bits
64. 11 bits
65. 8 bits
66. What will be the output of the following C code?

#include <stdio.h>

int main()

{

int x = 0;

if (x++)

printf("true\n");

else if (x == 1)

printf("false\n");

}

1. true
2. false
3. compile time error
4. undefined behavior
5. What will be the output of the following C code?

#include <stdio.h>

int main()

{

int x = 0;

if (x == 1)

if (x == 0)

printf("inside if\n");

else

printf("inside else if\n");

else

printf("inside else\n");

}

1. inside if
2. inside else if
3. inside else
4. compile time error
5. What will be the output of the following C code?

#include <stdio.h>

int main()

{

int x = 0;

if (x == 0)

printf("true, ");

else if (x = 10)

printf("false, ");

printf("%d\n", x);

}

1. false, 0
2. true, 0
3. true, 10
4. compile time error
5. Which of the following is not a valid C variable name?
6. int number;
7. float rate;
8. int variable\_count;
9. int $main;
10. Which of the following is true for variable names in C?
11. They can contain alphanumeric characters as well as special characters
12. It is not an error to declare a variable to be one of the keywords (like goto, static)
13. Variable names cannot start with a digit
14. Variable can be of any length
15. Which is valid C expression?
16. int my\_num = 100,000;
17. int my\_num = 100000;
18. int my num = 1000;
19. int $my\_num = 10000;
20. which keyword is used to prevent any changes in the variable within a C program?  
    a) immutable  
    b) mutable  
    c) const  
    d) volatile

MCQ – ST1(SET-1)

Questions 1-10 are of easy level and from 11-15 are of intermediate level.

**Q1. Which are the valid C constants?**

1) ‘134.6'

2)-3.14

3)’Clearning’

4)None of them

**Answer:** Option

**Q2. Which of the following are escape sequences?**

1. ‘\n’
2. ‘\t’
3. ‘\0’
4. All of these

**Answer**: Option

**Q3. Which of the following are valid identifier names?**

1)hello.

2)#hello

3)integer

4)9\_printf

**Answer:** Option

**Q4. Which of the following operator takes only integer operands?**

1) \*

2) /

3) +

4) %

**Answer:** Option

**Q5. What will be the output of the following code?**  
int i = 8 , j = 7;  
j += i \* (i % 2) + 1;  
printf ( " %d " , j );

1) 64

2)71

3)7

4)8

**Answer:** Option

**Q6. What will be the outcome of the following code?**  
float i, j, k;  
i = j = k = 1;  
printf(" %f ", (j + 2) % k / (i + 1));

1) 0

2) Compile-time error

3) 6

4) 3

**Answer:** Option 2 – Compile-time error

**Q7. what will be the output of the following code?**  
int i, j, k;  
i = 9; j = 14; k = 6;  
printf("%d", ( i % 4 ) \* ( 6 + ( j - 2 ) / ( k + 3 ) ) );

1)6

2)0

3)5

4)2

**Answer:** Option

**Q8. what will be the output of the following code?**  
int a;  
a = ( 5 <= 8 ) && ( 6 != 5 );  
a ^= 1;  
printf( " %d ", a );

1) 1

2) Run-time error

3) 0

4) None of them

**Answer:** Option

**Q9. What will be the output of the following code?**  
int a, b;  
a = -10; b = -3;  
printf( "%d", a % b );

1) -1

2) 0

3) 1

4) None of them

**Answer:** Option

**Q10. What will be the output of the following code?**  
int a , b, c;  
b = c = 5;  
printf( "%d ", a = b == c );

1) Compile-time error

2) 0

3) 1

4) 5

**Answer:** Option

**Q11. What will be the output of the following code?**  
int num1 = 50;  
int char1 = 'A';  
printf(" %d ", printf("%d%d%d", num1, num1, char1 ));

1) 505065

2) 5050A

3) 505065 6

4) Compile-time eror

**Answer:** Option

**Q12. The following code will result in an error, after which statement read will the Compile-time error occur?**  
#include<stdio.h>  
int main()  
{  
int a, b;  
scanf("%d %d", a, b);  
if ( a > b );  
 printf("Hello \n");  
else  
 printf("World \n");  
return 0;  
}

1) if ( a > b );

2) printf(“Hello \n”);

3)else

4)printf(“World \n”);

**Answer:** Option

**Q13. What will be the output of the following code?**  
int a, b, c, d;  
a = 2 % 5;  
b = -2 % 5;  
c = 2 % -5;  
d = -2 % -5;  
printf("a = %d \n b = %d \n c = %d \n d = %d \n", a, b, c, d);

1. a = 0

b = 0

c = 0

d = 0

1. a = 2

b = -2

c = 2

d = -2

1. a = 2

b = 0

c = 0

d = 2

1. a = 1

b = -1

c = 1

d = 0

**Answer:** Option

**Q14. What will be the output of the following code?**  
printf("nn \n/n nn\n");  
printf("n/n \n/n/n \n/n");

1) nn  
 /n nn  
 n/n  
 /n/n  
 /n

2) nn  
 /n  
 nn  
 n/n /n/n  
 /n

3) nn  
 /n nn  
 n  
 /n /n/n  
 /n

4) Compile -time error

**Answer:** Option

**Q15. What will be the output of the following code?(Hint - ASCII)**  
int a = -9;  
a = a<<1<<2>>3>>4;  
a += 69;  
printf("%c", a);

1) A

2) B

3) C

4) D

**Answer:** Option