**Q1**. What is the output of this 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

**Q2**. What is the output of this 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

**Q3**. What is the output of this 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

**Q4**. What is the output of this 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

**Q5**. What is the output of this 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

**Q6**. if (a == 1||b == 2){} can be 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

**Q7**. 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){}

**Q8**. What is the output of this 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

**Q9**. Comment on the output of this 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

**Q10**. What is the output of this C code(when 1 is entered)?

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

**Q11**. What is the output of this C code(When 1 is entered)?

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) Compile time error  
c) 2  
d) Run time error

**Q12**. What is the output of this C code(When 1 is entered)?

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

**Q13**. What is the output of this C code(When 2 is entered)?

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

**Q14**. What is the output of this C code(When 1 is entered)?

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  
  
**Q15**. What is the output of this C code?

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

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

**Q16**. What is the output of this C code?

1. #include <stdio.h>
2. int main()
3. {
4. int x = 97;
5. switch (x)
6. {
7. case 'a':
8. printf("yes ");
9. **break**;
10. case 97:
11. printf("no**\n**");
12. **break**;
13. }
14. }

a) yes  
b) yes no  
c) Duplicate case value error  
d) Character case value error  
  
**Q17**. What is the output of this C code?

1. #include <stdio.h>
2. int main()
3. {
4. float f = 1;
5. switch (f)
6. {
7. case 1.0:
8. printf("yes**\n**");
9. **break**;
10. default:
11. printf("default**\n**");
12. }
13. }

a) yes  
b) yes default  
c) Undefined behaviour  
d) Compile time error

**Q18**. What is the output of this C code?

1. #include <stdio.h>
2. int main()
3. {
4. char \*p = NULL;
5. char \*q = 0;
6. if (p)
7. printf(" p ");
8. else
9. printf("nullp");
10. if (q)
11. printf("q**\n**");
12. else
13. printf(" nullq**\n**");
14. }

a) nullp nullq  
b) Depends on the compiler  
c) x nullq where x can be p or nullp depending on the value of NULL  
d) p q

**Q19**. What is the output of this C code?

1. #include <stdio.h>
2. int main()
3. {
4. int i = 10;
5. void \*p = &i;
6. printf("%d**\n**", (int)\*p);
7. return 0;
8. }

a) Compile time error  
b) Segmentation fault/runtime crash  
c) 10  
d) Undefined behaviour  
  
**Q20**. What is the output of this C code?

1. #include <stdio.h>
2. int main()
3. {
4. int i = 10;
5. void \*p = &i;
6. printf("%f**\n**", \*(float\*)p);
7. return 0;
8. }

a) Compile time error  
b) Undefined behaviour  
c) 10  
d) 0.000000

**Q21**. What is the output of this C code?

1. #include <stdio.h>
2. int \*f();
3. int main()
4. {
5. int \*p = f();
6. printf("%d**\n**", \*p);
7. }
8. int \*f()
9. {
10. int \*j = (int\*)malloc(sizeof(int));
11. \*j = 10;
12. return j;
13. }

a) 10  
b) Compile time error  
c) Segmentation fault/runtime crash since pointer to local variable is returned  
d) Undefined behaviour

**Q22**. What is the output of this C code?

1. #include <stdio.h>
2. int \*f();
3. int main()
4. {
5. int \*p = f();
6. printf("%d**\n**", \*p);
7. }
8. int \*f()
9. {
10. int j = 10;
11. return &j;
12. }

a) 10  
b) Compile time error  
c) Segmentation fault/runtime crash  
d) Undefined behaviour  
  
**Q23**. Comment on the following pointer declaration?

int \*ptr, p;

a) ptr is a pointer to integer, p is not  
b) ptr and p, both are pointers to integer  
c) ptr is a pointer to integer, p may or may not be  
d) ptr and p both are not pointers to integer

**Q24**. What is the output of this C code?

1. #include <stdio.h>
2. int main()
3. {
4. int \*ptr, a = 10;
5. ptr = &a;
6. \*ptr += 1;
7. printf("%d,%d/n", \*ptr, a);
8. }

a) 10,10  
b) 10,11  
c) 11,10  
d) 11,11

**Q25**. Comment on the following?

const int \*ptr;

a) You cannot change the value pointed by ptr  
b) You cannot change the pointer ptr itself  
c) You May or maynot change the value pointed by ptr  
d) You can change the pointer as well as the value pointed by it

**Q26**. Which is an indirection operator among the following?  
a) &  
b) \*  
c) ->  
d) .

**Q27**. Which of the following does not initialize ptr to null (assuming variable declaration of a as int p;a=0;?  
a) int \*ptr = &a;  
b) int \*ptr = &a – &a;  
c) int \*ptr = a – a;  
d) All of the mentioned

**Q28**. What is the output of this C code?

1. #include <stdio.h>
2. int x = 0;
3. void main()
4. {
5. int \*ptr = &x;
6. printf("%p**\n**", ptr);
7. x++;
8. printf("%p**\n** ", ptr);
9. }

a) Same address  
b) Different address  
c) Compile time error  
d) Varies

**Q29**. What is the output of this C code?

1. #include <stdio.h>
2. int x = 0;
3. void main()
4. {
5. int \*const ptr = &x;
6. printf("%p**\n**", ptr);
7. ptr++;
8. printf("%p**\n** ", ptr);
9. }

a) 0 1  
b) Compile time error  
c) 0xbfd605e8 0xbfd605ec  
d) 0xbfd605e8 0xbfd605e8

**Q30**. What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. int \*ptr = &x;
6. printf("%p**\n**", ptr);
7. ptr++;
8. printf("%p**\n** ", ptr);
9. }

a) 0xbfd605e8 0xbfd605ec  
b) 0xbfd605e8 0cbfd60520  
c) 0xbfd605e8 0xbfd605e9  
d) Run time error

**Q31**. What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. int \*ptr = &5;
6. printf("%p**\n**", ptr);
7. }

a) 5  
b) Address of 5  
c) Nothing  
d) Compile time error

**Q32**. What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int x = 0;
5. int \*ptr = &x;
6. printf("%d**\n**", \*ptr);
7. }

a) Address of x  
b) Junk value  
c) 0  
d) Run time error