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Model question Electronics Sem-iii Paper-CC-07

Group-A

Multiple question: Answer all the question each question contains 2 marks.

1. What is required in each C program?
- The program must have at least one function.
 - The program does not require any function.
 - Input data
 - Output data

Ans A

2. Which of the following comment is correct when a macro definition includes arguments?
- The opening parenthesis should immediately follow the macro name.
 - There should be at least one blank between the macro name and the opening parenthesis.
 - There should be only one blank between the macro name and the opening parenthesis.
 - All the above comments are correct

Ans A

3. What is a lint?
- C compiler
 - Interactive debugger
 - Analyzing tool
 - interpreter

Ans C

4. What is the output of this statement "printf("%d", (a++))"?
- The value of (a + 1)
 - The current value of a
 - Error message
 - Garbage

Ans b

5. f abcdefg is the input, the output will be
- abcd
 - abc
 - efg
 - Garbage

Ans C.

6. Study the following program:
- ```
main()
{
int a = 1, b = 2, c = 3;
printf("%d", a + (a + = 3, 5, a))
}
```

What will be the output of this program?

- 6
- 9
- 12
- 8

Ans a

7. What does this declaration mean?

- ```
int x : 4;
```
- X is a four-digit integer.
 - X cannot be greater than a four-digit integer.
 - X is a four-bit integer.
 - None of these

8. Why is a macro used in place of a function?
- It reduces execution time.
 - It reduces code size.
 - It increases execution time.
 - It increases code size.

Ans d

9. In the C language, the constant is defined _____.

- Before main
 - After main
 - Anywhere, but starting on a new line.
 - None of these
- Ans c

10. A pointer is a memory address. Suppose the pointer variable has p address 1000, and that p is declared to have type int*, and an int is 4 bytes long. What address is represented by expression p + 2?

- 1002

- B. 1004
- C. 1006
- D. 1008

ANS D

11. Which one of the following is a loop construct that will always be executed once?
- A. for
 - B. while
 - C. switch
 - D. do while

ANS D.

12. Which of the following best describes the ordering of destructor calls for stack-resident objects in a routine?
- A. The first object created is the first object destroyed; last created is last destroyed.
 - B. The first object destroyed is the last object destroyed; last created is first destroyed.
 - C. Objects are destroyed in the order they appear in memory, the object with the lowest memory address is destroyed first.
 - D. The order is undefined and may vary from compiler to compiler.

ANS B

13. How many characters can a string hold when declared as follows?

```
char name[20];
```

- A. 18
- B. 19
- C. 20
- D. None of these

ANS B

14. How many bytes does "int = D" use?
- A. 0
 - B. 1
 - C. 2 or 4
 - D. 10

ANS C

15. 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

ANS A

16. 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
- ANS B

17. 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 ANS B

18. 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. hi hello ANS D

19. 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.
8. }
```

- A. Nothing
B. Run time error
C. Hello
D. Varies AND D

20. Which of the following statement is not true?

- A. A pointer to an int and a pointer to a double are of the same size.
B. A pointer must point to a data item on the heap (free store).
C. A pointer can be reassigned to point to another data item.
D. pointer can point to an array.
ANS B.

21. The following statements are about EOF. Which of them is true?

- A. Its value is defined within stdio.h
B. Its value is implementation dependent
C. Its value can be negative
D. Its value should not equal the integer equivalent of any character
E. All of the these

Answer: (e) All of the these

22. Which of the following statement is correct?

- A. num[9] is the last element of the array num
B. The value of num[8] is 3
C. The value of num[3] is 3
D. None of the above

Answer: (a) num[9] is the last element of the array num

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

```
1. #include <stdio.h>
2. int main()
3. {
4.     while ()
5.         printf("In while loop ");
6.     printf("After loop\n");
7. }
```

- A. In while loop after loop
B. After loop
C. Compile time error
D. Infinite loop
Answer:c.

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

```
1. #include <stdio.h>
2. int main()
3. {
4.     do
```

```
5.     printf("In while loop ");
6.     while (0);
7.     printf("After loop\n");
8. }
```

- E. In while loop
- F. In while loop
- G. After loop
- H. Infinite loop

Answer: b

Explanation: None.

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

```
1. #include <stdio.h>
2. int main()
3. {
4.     int i = 0;
5.     do {
6.         i++;
7.         printf("In while loop\n");
8.     } while (i < 3);
9. }
```

- A. In while loop
In while loop
In while loop
- B. In while loop
In while loop
- C. Depends on the compiler
- D. Compile time error

Answer: a

26. How many times i value is checked in the following C code?

```
1. #include <stdio.h>
2. int main()
3. {
4.     int i = 0;
5.     do {
6.         i++;
7.         printf("in while loop\n");
8.     } while (i < 3);
9. }
```

- A. 2
- B. 3
- C. 4
- D. 1

Answer: b

27. How many times i value is checked in the following C code?

```
1. #include <stdio.h>
2. int main()
3. {
4.     int i = 0;
5.     while (i < 3)
6.         i++;
7.     printf("In while loop\n");
8. }
```

- A. 2
- B. 3
- C. 4
- D. 1

Answer: c

What will be the output of the following C code?

```
1. #include <stdio.h>
2. int main()
3. {
4.     int i = -3;
5.     int k = i % 2;
6.     printf("%d\n", k);
7. }
```

- A. Compile time error
- B. -1
- C. 1
- D. Implementation defined

Answer: b

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

```

1. #include <stdio.h>
2. int main()
3. {
4.     int i = 3;
5.     int l = i / -2;
6.     int k = i % -2;
7.     printf("%d %d\n", l, k);
8.     return 0;
9. }

```

- A. Compile time error
 - B. -1 1
 - C. 1 -1
 - D. Implementation defined
- Answer: b

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

```

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

```

- A. Implementation defined
 - B. 1
 - C. 3
 - D. Compile time error
- Answer: b

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

```

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

```

- A. Implementation defined
- B. -1
- C. -3
- D. Compile time error

Answer: b

31. What will be the final value of x in the following C code?

```

1. #include <stdio.h>
2. void main()
3. {
4.     int x = 5 * 9 / 3 + 9;
5. }

```

- A. 3.75
- B. Depends on compiler
- C. 24
- D. 3

Answer:c

Group-B

Short questions type: Answer any four

4x5=20

1. Give the brief history of C programming language.
2. What are different data types in C computer programming language?
3. What are different types of variables in c? explain each.
4. What do you mean by pre-processor in c language? Explain different types of pre-processors used in C.
5. What are operators in C explain different types of operators by giving examples.
6. Describe function in C programming. What are its different parts?
7. Explain the function argument.
8. Describe the storage class in C.

1.
 - a. What do you mean by decision making structure in C? Explain each with flow chart diagram.
 - b. Write a C programme to check weather the given year is leap or not.
2.
 - a. What are the different type of loops in C? explain each.
 - b. What do you mean by loop break statement?
Write a c programme to calculate sum of first 15 natural numbers.
3.
 - a. Define array in C programming. Explain how it is Declared and initialized.
 - b. Write a programme in C to calculate the average of 10 numbers using array.
4.
 - a. Write a programme in c to find the sum of two matrices of the order 2X2.
 - b. Write a programme in C to check weather the given number is positive or negative.
5.
 - a. Discuss the different types of Functions.
 - b. Write a C programme to check prime or Armstrong Number Using User-Defined Function.

Dear Hiring Manager,

I am writing to express my genuine interest in the Team Leader position currently open at Innovation Advertising and to offer you my services in that capacity. You'll find that I am a dedicated and conscientious team player who is accustomed to a supervisory role. I have a history of leading others to successful outcomes in a professional setting, and I believe I would be the ideal candidate to fill this vacancy. I'm excited by all the challenges inherent in the position and look forward to the opportunities it presents.

Leadership has been a part of who I am for most of my life. I was both president of my university's German culture club and captain of the baseball team. In both capacities, I oversaw the other members, led by example and helped to plan and execute various activities, including fundraisers. Simultaneously, I maintained an academic scholarship and tutored underprivileged youngsters. These life lessons prepared me for my first job at a car rental agency where I was promoted to a managerial role within a year of being hired. Under my direction, sales increased by 18%, and cancellations dropped by 34%.

In my position at the advertising agency where I went next, I oversaw various ad campaigns. This charged me with leading a team of diverse and talented individuals while coordinating between departments in order to craft a marketing approach that would make both my employer and the client successful. Thanks to good communication, a strong team work ethic and my leadership, we were able to complete every project at least two days prior to the deadline. The ads themselves were also quite effective. My superiors reported an 89% increase in sales for a particular product when the campaign we'd designed was launched.

I appreciate the time you've invested in considering my application, and I look forward to hearing from you. I'm sure I'd be an asset to Innovation Advertising as a Team Leader, and I'd very much like the opportunity to demonstrate that to you.

Sincerely,

Jax Sampson