REV-01
BCA/01/20

2025/12

SET A

BACHELOR OF COMPUTER APPLICATION
FIRST SEMESTER (REPEAT)
PROGRAMMING METHODOLOGY
BCA-911(A)

[USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs. **Full Marks: 70**

Objective

Time: 30 min. **Marks: 20**

Choose the correct answer from the following: *1X20=20*

1. What is the size of integer or int data type in C?
   a. 4 bit ✓b. 4 byte
   c. 2 bit d. 2 byte

2. What is not a data type in C?
   a. int b. return
   ✓c. char d. none

3. Input in C is done using which function?
   a. input() b. read()
   c. printf() ✓d. scanf()

4. C programming language is case sensitive?
   ✓a. Yes b. No
   c. Change as per operating system d. Some times

5. Which of the following is a valid keyword in C?
   a. integer ✓b. int
   c. Sum d. average

6. Which of the following is a valid variable?
   a. 1_a b. X
   ✓c. C* d. x@

7. Which of the following is a relational operator?
   a. + ✓b. *
   c. >= ✗d. ?:

8. Which one is a primitive logical operator?
   a. !& b. &&
   c. !! d. |!

9. Which one of the following style is valid for array declaration?
   a. A b. A( )
   c. A[10] d. A{5}

10. How many output is possible from a decision box used in flow chart?
    a. 1 b. 2
    c. Atleast 2 d. None of the above

11. What group of operator is %?
    a. Arithmetic b. Relational
    c. Logical d. None

12. What is important in a C program?
    a. main function b. loop statement
    c. decision statement d. return statement

13. What is the name for % operator in C language?
    a. Percentage b. Modulo
    c. Remainder d. Both b and c

14. If x=5,y=5,z=1, then what is (x+y)/2+z ?
    a. 4 b. 5
    c. 6 d. 0

15. If x=9, what is x%5?
    a. 4 b. 5
    c. 6 d. 0

16. What is the starting index in an array?
    a. -1 b. 0
    c. 1 d. None

17. Which one of the following is a valid header file name used in C programming?
    a. studio b. Stdio
    c. stdio.h d. #include<stdio.h>

18. Which generation of computers uses integrated chips (IC) in their hardware?
    a. 1st b. 2nd
    c. 3rd d. 4th

19. Which one of the following is a valid float value?
    a. 2 b. "3.141"
    c. 4.91 d. 2/5

20. C Programming is _____ ?
    a. An editing software b. An application software
    c. A low level language d. A high level language

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(Descriptive)

Time : 2 hrs. 30 min. **Marks : 50**

[Answer question no.1 & any four (4) from the rest]

1. a) Draw a flowchart to find smallest of numbers? 5
   b) Draw a flowchart to find a number is even or odd? 5

2. a) What is a flowchart and what are its components? 1+4=5
   b) What is an algorithm and what are its characteristics? 1+4=5

3. a) What are the rules to declare a valid C variable? Give examples in each case? 5
   b) What is a data type? What are the various data types? Describe each of them in details. 1+4=5

4. What are the different types of decision statements? Explain in details about each of them. 10

5. a) What are the various types of iterative statements in C? Explain in details about them? 8
   b) Explain the difference of do-while loop with while loop in details. 2

6. What is an array? What are the types of array? Explain in details about how these different array is structured. 10

7. What is a function? What are the parts of a function? 2+8=10

8. What are the different categories of operators in C? Explain them in details. 10

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