C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, NOVEMBER - 2018

B.Sc., MATHEMATICS   **SEMESTER   VI**

U14MMA604 – PROGRAMMING IN C LANGUAGE

Time: Three Hours   Maximum: 60 Marks

SECTION - A (10 X 1 = 10 Marks)

Answer ALL Questions.

1. Define string constant.

2. List any four data types available in C.

3. Write the syntax of conditional operator.

4. Write the C expression of the following algebraic expression:

$$\sqrt{s(s-a)(s-b)(s-c)}.$$

5. Which statement is an extension of the simple IF statement.

6. Define Multi-dimensional arrays.

7. Why we need User-Defined functions in C.

8. Define Structure.

9. Define Pointer.

10. Give the syntax to access the pointer variable.

SECTION - B (5 X 4 = 20 Marks)

Answer ALL Questions.

11. a) What do you meant by Constants in C?

(Or)

b) Give a short note on Variables.

12. a) Explain Increment and Decrement operators.

(Or)

b) Write a short note on precedence of arithmetic operators.

13. a) Explain the DO statement, with suitable example.

(Or)

b) Write a short note on one-dimensional array.

14. a) What do you meant by Nesting of a function? Explain it.

(Or)

b) Explain about Unions in C with suitable example.

15. a) Illustrate the concept of pointers and array with suitable example.

(Or)

b) Write a C program using pointers to determine the length of a character string.

SECTION - C (3 X10 = 30 Marks)

Answer ANY THREE Questions.

16. Give a detailed note on various data types available in C with suitable examples.

17. Explain the following operators:
    i.   Logical operators   ii. Assignment operators

18. Explain about i) while statement   ii) if-else statement.

19. Explain the following types of functions:
    i.   No arguments and No return values.
    ii. Arguments but no return value.

20. How to declare and initialize a structure? Explain it with an example.

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