B. C. A. DEGREE END SEMESTER EXAMINATION OCTOBER / NOVEMBER 2018

SEMESTER – 1: BACHELOR OF COMPUTER APPLICATIONS (CORE COURSE)

COURSE: 16U1CRBCA2 – PROGRAMMING IN 'C'

(For Regular - 2018 Admission and Improvement 2017/ Supplementary 2017, 2016 admissions)

Time: Three Hours   Max. Marks: 75

SECTION – A

Answer *all* Questions. Each question carries 1 mark

1. What is debugging?
2. Define scope and lifetime of a variable
3. What are enumerated data types?
4. What are identifiers?
5. What is typedef statement?
6. Differentiate between array and structure.
7. What are preprocessor directives?
8. What do you mean by command line arguments? Give an example.
9. What are pointers?
10. What is a nested loop?

(1 x 10 = 10)

SECTION – B

Answer any *eight* Questions. Each question carries 2marks

11. What are the fundamental data types in C programming?
12. Explain break and continue statement.
13. Write a program find the factorial of a number using recursion.
14. Differentiate between call by value and call by reference.
15. Explain flow chart and algorithm.
16. Explain pointer to structure.
17. Write a program to check whether given number is prime or not.
18. What are enumerated data types?
19. What is conditional operator?
20. Explain operator precedence in C language   (2 x 8 = 16)

SECTION – C

Answer any *five* Questions. Each question carries 5 marks

21. What is a function? What are the parts of function?
22. Write a program to find row sum and column sum of matrices.
23. What is a pointer? Explain pointer arithmetic.
24. Explain the different if structures?

25. Explain different string handling functions.
26. Explain macros with examples.
27. What are the characteristics of a good program? Explain.

(5 x 5 = 25)

SECTION – D

Answer any *two* Questions. Each question carries 12 marks

28. Discuss the characteristics of programming. Describe various stages of program development
29. Explain dynamic memory organization. Explain pointer arithmetic operations
30. Explain arrays with examples. How array passes to a function and structures?
31. What are the different control structures in C?

(12 x 2 = 24)

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