FIRST SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS—UG)

Software Development

SDC 1IT 01—FUNDAMENTALS OF COMPUTER AND PROGRAMMING IN C

Time : Three Hours   Maximum : 80 Marks

Part A

Answer all questions.
Each question carries 1 mark.

1. BIOS stands for ————.

2. What is MNEMONICS ?

3. Difference between %c and %s ?

4. Briefly explain symbolic constants.

5. What are the two types of breaking control statement ?

6. An array of arrays is called ——————?

7. List any 4 library Function.

8. Declare a Structure 'STUDENT' with ROLLNO, NAME, ADDRESS, MARK, and GRADE

9. Define algorithm.

10. Explain recursion.

(10 × 1 = 10 marks)

Part B

Answer any eight questions.
Each question carries 2 marks.

11. What you meant by first generation language ?

12. What is OMR ?

13. What is the difference between i++ and ++i ?

14. Write the syntax of any two input and output functions.

15. Explain conditional operator.

16. Define Go to statement.

Turn over

17. Define Two Dimensional array with syntax.

18. Define linear sort with example.

19. Differentiate between call by value and call by reference.

20. What is meant by storage class of variables ?

21. What are macros ?

22. What is pointer variable ?

<div align="right">(8 × 2 = 16 marks)</div>

Part C

Answer any six questions.
Each question carries 4 marks.

23. Explain about the evolution of computers.

24. Differentiate between SRAM and DRAM.

25. Write a program to calculate perimeter and area of a rectangle.

26. Explain bitwise operator. ✓

27. Write a loop statement that will show the following.

28. Output : 1 12 123 1234 12345.

29. What are enumerated types ?

30. Explain arrays of structures.

31. Explain dynamic memory allocation in detail. ✓

<div align="right">(6 × 4 = 24 marks)</div>

Part D

Answer any two question from the choice.
Each question carries 15 marks.

32. For what purpose algorithm and flow charts are used ? Explain each of them with an example.

<div align="center">Or</div>

33. Explain the for loop statements with example ? Explain the Loop statements.

34. How we can open and close a file ? Explain different operations on files.

<div align="center">Or</div>

35. Write a program to produce calculator using function.

<div align="right">(2 × 15 = 30 marks)</div>