

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2012**First Semester****Core Course—METHODOLOGY OF PROGRAMMING AND PROGRAMMING IN C****(Common for the programmes B.Sc. Computer Science and B.C.A.)**

Time : Three Hours

Maximum Weight : 25

Part A*Answer all questions.**Each bunch of four questions carries a weight of 1.***BUNCH I**

Fill in the blanks :

1. Rectangle is a symbol used in flowcharts (True/False).
2. Calling a function by another function is recursion. (True/False)
3. Unsigned is a _____.
4. _____ is an assignment operator.

BUNCH II

5. String is a data type. (True/False).
6. _____ is the arithmetic operator with lowest precedence.
7. _____ is a unconditional branching instruction.
8. Static is a _____.

BUNCH III

9. A separate statement is used to call a function. (True/False)
10. Arrays can be used within structures. (True/False)
11. The format specifier for character value is _____.
12. Dynamic memory allocation will reduce the wastage of memory. (True/False)

BUNCH IV

13. A pointer can point to an array. (True/False)
14. The character which denotes the end of a string is _____.
15. A programmer can define his own function in a program.
16. _____ is the output function.

(4 × 1 = 4)

Turn over

Part B

*Answer any five questions.
Each question carries a weight of 1.*

17. What is bottom up approach in problem solving ?
18. Why do you mean by coupling ?
19. What are compound statements ?
20. Mention the use of && operator.
21. What is precedence of operators ?
22. Why do you use for loops ?
23. What is a string ?
24. What is typedef statement ?

(5 × 1 = 5)

Part C

*Answer any four questions.
Each question carries a weight of 2.*

25. Explain the merits and demerits of structured programming.
26. Explain the working of do while with an example.
27. How can you pass a structure to a function ?
28. Write a program to reverse a number.
29. Write a program to find the sum of two matrices.
30. Write a program to search a given number in a list of numbers.

(4 × 2 = 8)

Part D

*Answer any two questions.
Each question carries a weight of 4.*

31. Discuss the characteristics of programming. Describe various stages of program development.
32. Explain the significance of user defined functions with an example.
33. What is an array of structures ? Why do you use it ?

(2 × 4 = 8)