

NOVEMBER 2014

50410/SAE3A/
SAZ3A

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What is a keyword?
2. What is the use of scope resolution operator?
3. What are inline functions?
4. Define a class.
5. Define Constructor.
6. What is an input Stream?
7. Define data structure.
8. What is an array?
9. Distinguish between a Stack and a queue.
10. What is recursion?
11. What is binary tree?
12. What is a graph?

II BSc compsci — Programming in C++ & Data Structure

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. List and explain various data types in C++.
14. What is function overloading? Write a C++ program to explain function overloading.
15. What are the types of type conversions? Explain.
16. Give a brief account on command line Arguments in C++.
17. Explain the various asymptotic notations with examples.
18. Write a note on doubly linked list.
19. Explain any two hash functions.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain the following with examples :
 - (a) Call by reference
 - (b) Function prototyping.
21. Explain multiple inheritance with an example program.

22. Describe the various classes for file stream operations.
 23. What is a stack? Explain any two operations on stack with required algorithm.
 24. Discuss the various methods of traversing a binary tree.
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