Register Number:

Name of the Candidate :

6697

B.C.A. DEGREE EXAMINATION, 2008

(SECOND YEAR)

(PART - III)

(PAPER - IX)

230. DATA STRUCTURES AND ALGORITHMS

(Revised Regulations)

(Including Lateral Entry)

December]

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[Time: 3 Hours]

Maximum : 100 Marks

PART - A $(8 \times 5 = 40)$

Answer any EIGHT questions. All questions carry equal marks.

1. What is meant by data type ? Write short notes on its various types.

Turn over

- 2. What is a queue ? Write a short note on priority queue.
- 3. Explain the deletion of a node from the singly linked list with the procedure.
- 4. Explain the operations on the circular queue.
- 5. Write a brief note on the threaded representation of the binary tree.
- 6. Write a short note on the properties of a binary search tree.
- 7. Explain the procedure of insertion sort with an example.
- 8. Explain merge sort with the procedure.
- 9. Write a brief note on folding method in hashing technique.
- 10. Explain binary search method with an example.

PART - B $(3 \times 20 = 60)$

Answer any THREE questions. All questions carry equal marks.

11. Describe the applications of stack.

12. Write the procedures for adding two polynomials.

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- 13. Explain in detail, about the binary tree traversal methods.
- 14. Describe tree sorting method.
- 15. Describe general search trees.

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