Roll No.....

BCA 403(0)

B.C.A (Semester-IV) Exam.-2014

(Old Course) Paper: III

Data Structure using 'c'

Time: Three Hours]

[Maximum Marks: 75

Note: Section A is compulsory. Attempt seven questions from Sec B, One question from Section C.

Section-A

- methodologies? What are the features of structured Programming
- 2 What are primitive data type?
- w. insertion and selection sort. Compare the advantages and disadvantages of bubble,

SECTION B

- 4 sequential files? Write what are the methods available in sorting
- 5 following data arriving in sequence. Draw the B-tree of order 3 created by inserting the

- 6. integers. Write a program to merge two sorted arrays of
- 7 operation. Compare queue and linked list to perform insertion
- 00 Write a program to convert an infix expression into

post fix operation.

9. Explain binary search free operation in detail.

BCA-403(O)-40

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SECTION C

- 10. Write short notes on any five:
- 2 Linear search
- Ь. Stack application
- 0 Leap sort
- d. **D**-queues
- hashing
- 11. a Binary tree. Write a program for creating, inserting and deletion in