



RAN-3539

B.C.A. SEM - III (CBCS) Examination

March / April - 2019

Data Structures

(Old or New to be mentioned where necessary)

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B.C.A. Sem - III (CBCS)

Name of the Subject :

Data Structures

Subject Code No.:

3

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3

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Seat No.:

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Student's Signature

- (2) Write to the point.
- (3) Provide examples and diagrams wherever appropriate / necessary.
- (4) Figures to the right indicates full marks to the question.

Q-1 Answer the following. (Any Seven)

(14)

1. What is TOP pointer in stack?
2. Explain difference between Simple queue and Circular queue.
3. Differentiate between Singly link list and doubly link.
4. Explain simple, strictly and complete binary tree.
5. Convert Infix to postfix:- $A/(B - C + D)*E + F/G$.
6. Explain sibling and forest in tree.
7. Give polynomial representation of $2x^2 + 3xy + y^2 + z^2$.

- Q-2 Answer the following. (Any Two) (14)**

- Q-3 Answer the following. (Any Two) (14)**

- Q-4 Answer the following. (Any two) (14)**

- Q-5 Write a Short note for the following. (Any two) (14)**

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