AJEET SONI

Roll No. 8238230007]

Iotal No. of Questions: 8]

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B. Tech. IIIrd Semester (New Scheme) CSE

Examination, 2023-24

Discrete Structure

Paper - CS-305

Time: 3 Hours

[Maximum Marks: 60

Note: Attempt any five questions. All question carry equal mark.

- 1. Explain the following terms:
 - (a) Set identities
 - (ii) Relation

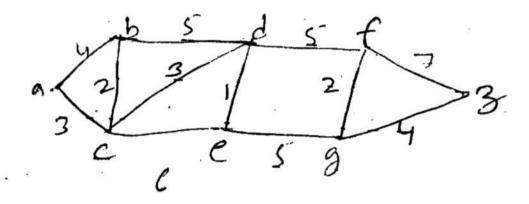
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P.T.O.

- (c) Eulerian circuit
- (d) Recurrence relation
- (e) Computer Buss
- •2. Define the following basic logic operations along with Truth table:
 - (a) Conjunctions (A) .
 - (b) Disjunction(\vee)
 - (c) Negation (~)
 - (d) Conditions ()
 - 3. Explain inclusion exclusion Principle in discrete structure with example?
 - 4. Explain in detail Tree traversal with example?
 - What are functions | Various type along with the Properties of Function

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6. Define shortest Path, find the length of a Shortest Path between a and z in the given weighted graph using Dijkstra's algorithm



- What do Mean by Completeness of an algorithm? What are the type of algorithm in discrete structure?
- & Explain Algebric system group, Ring and its types?

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