

SE - 211

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Seat No.	
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**B.E. (CSE) (Semester-VII) (Revised) Examination,
November - 2018
DISTRIBUTED SYSTEMS
Sub. Code : 67542**

Day and Date : Saturday, 24 - 11 - 2018

Total Marks : 100

Time : 02.30 p.m. to 05.30 p.m.

- Instructions:
- 1) Question 4 and question 5 are compulsory, attempt any two questions from que.1 to 3 from section I and que. 6 to 8 from section II
 - 2) Figures to the right indicate full marks.

SECTION - I

- Q1)** a) Explain the process of binding a client to a server in DCE RPC. [8]
b) What are different steps involved in writing a client and a server in DCE RPC? [8]
- Q2)** a) Explain Lamport's logical Clocks in detail. [8]
b) Explain centralized mutual exclusion algorithm in detail. [8]
- Q3)** a) How failures are masked by applying redundancy? Explain triple modular redundancy. [8]
b) How failures are detected to achieve fault tolerance in distributed systems? [8]
- Q4)** Attempt any three [18]
a) A ring algorithm
b) Network Time protocol
c) Process resilience
d) Compound procedures used in ONC RPC in NFS v4

P.T.O.

SECTION - II

- Q5) a) List out and explain components of Cloud Computing. [9]
b) What are the benefits using virtualization in Cloud Computing? [9]
- Q6) a) Explain virtualization at OS level. [8]
b) Why Cloud Computing brings new threats? [8]
- Q7) a) What are the properties of Cloud Computing? [8]
b) Discuss "Infrastructure as a Service" (IaaS) in Cloud Computing. [8]
- Q8) a) What are the different challenges with data redundancy and data backup with respect to Cloud data? [8]
b) Write note on cloud storage gateways (CGS). [8]

