

Seat No.	
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B.E. (Computer Science & Engineering) -I (Semester-VII)
(Revised) Examination, May - 2017

DISTRIBUTED SYSTEMS

Sub. Code : 67542

Day and Date : Tuesday, 16-05-2017

Total Marks : 100

Time : 2.00 p.m. to 5.00 p.m.

- Instructions :**
- 1) Question 4 and question 8 are compulsory, attempt any two questions from que. 1 to 3 from section-I and que. 5 to 7 from section-II.
 - 2) Figures to the right indicate full marks.

SECTION-I

- Q1) a)** What do you mean by scalability of distributed system? Discuss various scalability problems that need to be solved while scaling distributed system. [8]
- b) What are the different scaling techniques can be applied to achieve scalability in distributed system? [8]
- Q2) a)** Explain different architectural styles used in distributed systems. [8]
- b) Explain simplified organization of an Internet search engine which comprises of user level, processing level and data level. [8]
- Q3) a)** Explain working of side effect mechanism used in RPC2 in CODA file system. [8]
- b) Explain two-phase commit protocol in detail. [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) Define Cloud computing, and explain essential characteristics of cloud Computing? [8]
b) Compare implementation levels of virtualization in Cloud Computing? [8]
- Q6)** a) What is public cloud and private cloud? Explain in detail. [8]
b) Why Cloud Computing brings new threats? [8]
- Q7)** a) What are the specialized Cloud Services? [8]
b) What are the advantages of "Software as a Service" (SaaS). [8]
- Q8)** a) What are the different challenges with data fragmentation and data integration with respect to cloud data? [9]
b) Write note on Data Confidentiality and Encryption in cloud data? [9]

