

MASTER OF TECHNOLOGY (COMPUTER ENGINEERING) (CBCS - 2015
COURSE) M. Tech. (Computer Engineering) Sem-III: WINTER- 2019
SUBJECT: SELF-STUDY PAPER-I: CLOUD COMPUTING (UE)

Friday 06-12-2019
11:00 AM-02:00 PM

W-14502-2019
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.
- 5) Assume suitable data if necessary.

SECTION-I

Q.1 List any four open challenges in Cloud Computing. Explain Scalability and Fault Tolerance in Cloud. (10)

OR

Define Distributed Computing. Explain the elements of Distributed Computing. (10)

Q.2 Virtualization simplifies the use of resources, isolates users from one another and supports replication and mobility, but exacts price in terms of performance and Cost. Analyze each one of these aspects for- (10)

- a) Virtualization of a communication Channel.
- b) Processor Virtualization.
- c) Memory Virtualization.

OR

Explain the various storage Medium used in Cloud. (10)

Q.3 How does Cloud Computing help to reduce the time to market applications and to cut down Capital Expenses? (10)

OR

Describe FedRAMP. (10)

SECTION-II

Q.4 Security forms a major obstacle in adoption of Cloud Computing. Justify. (10)

OR

Describe Protection Mechanism in Cloud. (10)

Q.5 Discuss the guidelines that should be considered with regard to maintaining the continuity of a given service. (10)

OR

Explain Open Nebula, Open Source Tool kit building Cloud Computing. (10)

Q.6. Design a University Library software Model which offers comprehensive and Multi-Level Services for its users using www service Model. (10)

OR

Design a layered Architecture for Emergency Health care using software as a Service. (10)