7E4237

E423

Time: 3 Hours

Instruction to Candidates:

B. Tech. VII Semester (Main) Examination 2015

OCSO # MODEL COMPUTER ENGINEERING

CLOUD COMPUTING

Attempt any five questions, selecting one question from each unit. All questions carry equal marks

(Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed

and stated clearly. Units of quantities used/calculated must be stated clearly.)

Min. Passing Marks: 24 Maximum Marks: 80

[8]

policy

[8]

 $[4\times 2=8]$

in the context of cloud computing? Discuss the (Unit-'I') various phenomenons behind its gaining (a) Discuss ethical issues in cloud computing? importance? What are the characteristics of cloud computing? Discuss the followings: (b) Explain in detail [8]Xen Virtualization Technology OR. (ii) VMware: full virtualization (a) Write short notes on historical development of cloud (Unit-IV) computing. [8] (b) What do you understand by the term 'cloud 4. (a) What are various ways to mitigate risks to cloud computing'? How it is evolved? computing security? Explain. [8] Write short notes on security (Unit-'II') implementation. (a) Discuss parallel or distributed computing paradigm OR using MapReduce and Hadoop. [8] 4. (a) What are CIA triad of information system security? (b) Discuss the generic cloud architecture with neat Explain. diagram. [8] (b) Write short notes on trusted cloud computing. [8] OR 2. (a) Discuss layers and types of cloud with reference (Unit-'V') to cloud computing. [8] 5. (a) Write short notes on third party services in cloud (b) Write short notes on high level language for cloud computing. and developing applications. [8] What are various scientific applications of cloud (Unit-'III') computing? What is datacenter virtualization? What are the (a)OR various benefits of it? Write an overview of the Aneka framework with [8] Explain the followings: reference to cloud computing platform. Write short notes on the followings: (any two) Operating system-level virtualization (ii) Programming language-level virtualization Protein Structure Prediction Gene expression data analysis for cancer (iii) Application-level virtualization |8|diagnosis OR 3. (a) Why virtualization has gained so much popularity (iii) Satellite image processing