

Roll No

CS/IT - 703**B.E. VII Semester**

Examination, December 2015

Cloud Computing**Time : Three Hours****Maximum Marks : 70**

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) What are the essential characteristics of Cloud Computing?
- b) Explain the keys steps in implementing Cloud Computing based applications.
- c) Differentiate between Distributed Computing and Cloud Computing.
- d) How Cloud Computing can help in solving Gene Expression Data Analysis? Explain in details.

OR

What do you mean by Social Network Analysis? How Cloud Computing can help in this problem?

Unit - II

2. a) How Cloud Computing provides scalability and fault tolerance?
- b) What is Cloud Reference Model? What are the applications of this models?
- c) Explain Cloud Business Process Management.
- d) Explain about Cloud Analytics using suitable example.

OR

Explain in details about Virtual Desktop Infrastructure.

Unit - III

3. a) Discuss the benefits, goals and characteristics of provisioning.
- b) Write in brief about block and file level storage virtualization.
- c) What do you mean by Server Virtualization? Explain using example.
- d) Explain Map-Reduce programming methodology. How it helps in implementing complex problems using Cloud Computing?

OR

Explain Virtual LAN (VLAN) and Virtual SAN (VSAN) in Cloud Computing.

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Unit - IV

4. a) How security policies are implemented on Cloud Computing?
- b) Discuss the different Cloud security services.
- c) List few major challenges in securing Cloud Computing.
- d) Explain the Cloud Computing security architecture using suitable block diagram.

OR

Explain Virtualization security management in Cloud Computing.

Unit - V

5. a) List the major features of Google App Engine. Which kind of problems can be solved using Google App Engine?
- b) What are the major functionalities of Hadoop API? Explain.
- c) What do you mean by Cloud Federation Stack?
- d) What is market based management of clouds? Explain in details?

OR

List major third party cloud services. What are the applications of these services?

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