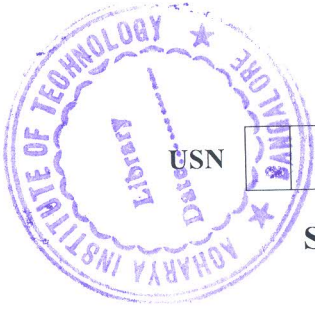


# CBCS SCHEME

15CS742



USN

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 Cloud Computing and its Applications

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. What is cloud computing? Explain in brief the cloud computing reference models. (08 Marks)  
b. Explain in brief the services provided by the following cloud service providers. (08 Marks)  
i) Amazon web services ii) Microsoft Azure.

OR

- 2 a. Explain how XEN is different from other virtualization platform. Explain its elements for virtualization. (08 Marks)  
b. Define virtualization in detail and explain in brief full virtualization and para virtualization with its pros and con's. (08 Marks)

### Module-2

- 3 a. Explain in detail cloud computing architecture. (08 Marks)  
b. Explain in detail public cloud deployment of Aneka cloud. (08 Marks)

OR

- 4 a. What is Aneka container? Explain the suitable types of services hoisted inside Aneka container. (08 Marks)  
b. Explain IaaS based solution for cloud computing. (08 Marks)

### Module-3

- 5 a. Explain the different techniques for parallel computation. (08 Marks)  
b. Differentiate Aneka thread from local thread with diagram. (08 Marks)

OR

- 6 a. Explain Task based application models. (08 Marks)  
b. Explain the steps to develop applications with the task model. (08 Marks)

### Module-4

- 7 a. List eight open challenges in data intensive computing. (08 Marks)  
b. Explain the Aneka map-reduce infrastructure. (08 Marks)

OR

- 8 a. Explain the technology suited for data intensive computing. (08 Marks)  
b. Explain the variations and extensions methods of map-reduce in detail. (08 Marks)

### Module-5

- 9 a. Explain the following with respect to Amazon web services. (08 Marks)  
i) EC2 ii) Cloud watch iii) EBS iv) S3. (08 Marks)  
b. Explain about the storage services of cloud platforms.

OR

- 10 a. Explain the impact of cloud computing on health care sector. In brief explain how ECG analysis done thro cloud computing. (08 Marks)  
b. Discuss in detail about the applications of cloud computing in Satellite Image Processing. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.