



# CBCS SCHEME

17CS742

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 Cloud Computing and its Applications

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Define Cloud Computing. Explain different characteristics of Cloud Computing. (10 Marks)
- b. Illustrate the Taxonomy of Virtualization technique, with a neat diagram. (10 Marks)

OR

- 2 a. With a neat diagram, explain with Machine Reference Model and also explain security rings. (10 Marks)
- b. Discuss Operating system level virtualization and Application level virtualization. (10 Marks)

### Module-2

- 3 a. Describe the PaaS Reference Model with a neat diagram. (10 Marks)
- b. List and explain various types of services hosted inside the Aneka container. (10 Marks)

OR

- 4 a. Classify and explain the various types of Clouds. (10 Marks)
- b. Describe the fundamental features of the Economic and Business model behind Cloud Computing and how they benefit of Industries. (10 Marks)

### Module-3

- 5 a. Describe Multiprocessing and explain the different techniques for implementing Multiprocessing. (10 Marks)
- b. Briefly describe the Architecture of a Multicare system. (10 Marks)

OR

- 6 a. List and explain Popular frameworks for task computing. (10 Marks)
- b. Explain the features provided by Aneka for the execution of parameters sweep applications. (10 Marks)

### Module-4

- 7 a. What is Data – Intensive Computing? Explain the Open challenges in Data – Intensive Computing system. (10 Marks)
- b. Explain IBM General parallel file system, Google File system and Amazon simple storage. (10 Marks)

OR

- 8 a. Explain the major components of Aneka Map Reduce Programming Model. (10 Marks)
- b. Explain any three distributed file system and illustrate with suitable applications, working of these file systems. (10 Marks)

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.

**Module-5**

- 9 a. By considering ECG analysis as a function, explain how Cloud technology can be used. (10 Marks)  
b. Discuss briefly various components of AWS and Services offered by them. (10 Marks)
- OR**
- 10 a. With a neat diagram, explain Google Application Engine Architecture and its services. (10 Marks)  
b. Write a short notes on :  
i) Drop Box      ii) i Cloud      iii) Animate Reference Architecture. (10 Marks)

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