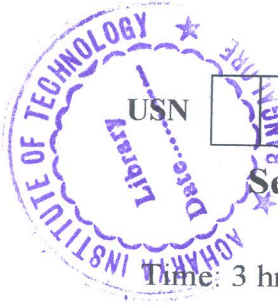


CBCS SCHEME



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15CS742

Seventh Semester B.E. Degree Examination, July/August 2021

Cloud Computing and Its Applications

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

- 1 a. Define Distributed system. List and explain the 3 major milestones of distributed system that led to the evolution of cloud computing. (08 Marks)
b. Briefly summarize the cloud computing reference model. (08 Marks)
- 2 Discuss Hardware – level virtualization. (16 Marks)
- 3 Define PaaS. PaaS reference model with neat diagram and list the essential characteristics that identify and PaaS solution. (16 Marks)
- 4 How do you build Aneka clouds? Explain Infrastructure and logical organization of building Aneka clouds. (16 Marks)
- 5 Briefly, explain the Domain Decomposition technique for parallel computation. Explain two types of problems identified under domain decomposition. (16 Marks)
- 6 a. What is MPI? What are its main characteristics? (08 Marks)
b. Describe the reference model of a workflow management system. (08 Marks)
- 7 a. Write a note on :
i) Data Grids (04 Marks)
ii) Data clouds and “Big Data”. (04 Marks)
b. Explain the design features of Google File System. (08 Marks)
- 8 Describe the components of the scheduling and execution services that constitute the runtime infrastructure supporting MapReduce. (16 Marks)
- 9 With neat diagram, explain Microsoft windows Azure platform Architecture. (16 Marks)
- 10 a. What are DropBox and icloud? Which kind of problem do they solve by using cloud technologies? (08 Marks)
b. Provide some examples of media applications that use cloud technologies. (08 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.