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Future Vision

By K B Hemanth Raj

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15CS742

Seventh Semester B.E. Degree Examination, June/July 2019 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. Describe cloud computing reference model. List any four characteristics and benefits of cloud computing. (08 Marks)
- b. Describe the three major milestones which have led to cloud computing. (06 Marks)
- c. Define service oriented computing and utility oriented computing. (02 Marks)

OR

- 2 a. What is virtualization? What are the characteristics of virtualized environments? (08 Marks)
- b. What is an Hypervisor? Explain how hardware virtualization can be achieved. (08 Marks)

Module-2

- 3 a. Classify the service offered by cloud computing. Explain any one of the service in detail. (08 Marks)
- b. With a neat diagram, describe the private cloud hardware and software stack. List the advantages of private cloud computing infrastructure. (08 Marks)

OR

- 4 a. Describe Aneka container. Explain briefly the three service offered by the Aneka container. (08 Marks)
- b. Describe the Aneka service model with a neat diagram of service life cycle. (08 Marks)

Module-3

- 5 a. Describe the relationship between a process and a thread. (08 Marks)
- b. Explain with an example, Domain Decomposition. Write Aneka code to create matrix product class. (08 Marks)

OR

- 6 a. What is task computing? Describe parameter sweep application with an example. (10 Marks)
- b. List and explain Aneka ready – to – use task libraries. (06 Marks)

Module-4

- 7 a. Define Data Intensive computing. List any six open challenges in Data Intensive computing. (08 Marks)
- b. Bring out the salient features of Map Reduce programming model with a neat diagram of Map Reduce compworkflow. (08 Marks)

OR

- 8 a. Explain the Google Big Table Architecture. (08 Marks)
- b. List and explain the parameters that can be controlled during execution of Aneka mapReduce Application. (08 Marks)

Module-5

- 9 a. Describe any four popular cloud computing products. Indicate their service type. (08 Marks)
- b. Describe in detail the “Simple Storage Service” offered by Amazon S3. (08 Marks)

OR

- 10 a. Explain online health monitoring system hosted in cloud. (08 Marks)
- b. What are dropbox and icloud? Which kind of problems do they solve by using cloud technologies? (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.