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Fifth Semester MCA Degree Examination, Dec.2018/Jan.2019

Cloud Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

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|---|-------------------------------------------------------------------------------|------------|
| 1 | a. Explain various computing paradigm distinction in scalable computing. | (10 Marks) |
| | b. Explain different system models for distributed and cloud computing. | (10 Marks) |
| 2 | a. Explain energy efficiency in distributed system with a neat diagram. | (10 Marks) |
| | b. Explain: | |
| | i) Various dimensions of scalability | |
| | ii) System availability | (10 Marks) |
| 3 | a. Explain: | |
| | i) Design objectives of computer clusters | |
| | ii) Fundamental cluster design issues. | (10 Marks) |
| | b. Explain various levels of virtualization implementation. | (10 Marks) |
| 4 | a. Explain cloud ecosystem and cost model. | (10 Marks) |
| | b. Explain any five architectural design challenges of cloud. | (10 Marks) |
| 5 | a. Explain Google App Engine (GAE) with a neat diagram. | (10 Marks) |
| | b. Explain different problems in resource provisioning with diagram for each. | (10 Marks) |
| 6 | a. List any five cloud platform capability with description for each. | (10 Marks) |
| | b. Explain Map reduce Frame work with a neat diagram. | (10 Marks) |
| 7 | a. Explain Google file system and big table. | (10 Marks) |
| | b. Explain Eucalyptus and Nimbus in brief. | (10 Marks) |
| 8 | Explain: | |
| | a. Future grid | |
| | b. Grid 5000 [35] | |
| | c. Magellan [7] | |
| | d. Twitter for micro blogging | (20 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.