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16MCA542

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

Time: 3 hrs. Max. Marks: 80

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

Module-1

1	a.	Explain the evolutionary trend of scalable computing.	**(06 Marks)**
	b.	Differentiate between high performance computing and High throughput computing.	
			(04 Marks)
	c.	Define RFID, GPS and IoT with examples.	**(06 Marks)**

OR

2	a.	Explain centralized computing, parallel, distributed and cloud computing.	**(12 Marks)**
	b.	What are clusters of cooperative computers?	**(04 Marks)**

Module-2

3	a.	Discuss major cluster design issues and their features.	**(08 Marks)**
	b.	Explain Peer-to-Peer network families with diagram.	**(08 Marks)**

OR

4	a.	What is cloud computing? Explain cloud architecture.	**(08 Marks)**
	b.	Explain performance metrics in distributed systems.	**(08 Marks)**

Module-3

5	a.	What is virtualization? Explain implementation levels of virtualization.	**(08 Marks)**
	b.	Define VMM with diagram of abstraction levels.	**(08 Marks)**

OR

6	a.	Explain OS level virtualization.	**(08 Marks)**
	b.	Differentiate between hypervisor and Xen architecture.	**(08 Marks)**

Module-4

7	a.	Define public, private and hybrid clouds.	**(06 Marks)**
	b.	Explain data-centre networking structure.	**(05 Marks)**
	c.	List out and explain cloud design objectives.	**(05 Marks)**

OR

8	a.	Explain AWS, GAE and Ms Azure as cloud platforms.	**(12 Marks)**
	b.	Define physical and cyber security.	**(04 Marks)**

Module-5

9	a.	List out and explain traditional features in cluster, grid, parallel computing environments.	
			(08 Marks)
	b.	Explain Mapreduce, Hadoop in cloud programming environment.	**(04 Marks)**
	c.	What are GFS in software environment?	**(04 Marks)**

OR

10	a.	Explain Amazon EBS as cloud programming.	**(08 Marks)**
	b.	Explain emerging cloud software environments.	**(08 Marks)**

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