[M19IT1110]

I M. Tech I Semester (R19) Regular Examinations
CLUSTER AND GRID COMPUTING
(Information Technology)
MODEL QUESTION PAPER

TIME: 3 Hrs. **Max. Marks: 75 M**

Answer **ONE Question** from **EACH UNIT**
All questions carry equal marks
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			CO	KL	M
		UNIT - I			
1.	a).	Identify different issues in Grid Computing architecture.	**CO1**	**K3**	**7**
	b).	What are differences between Web services and Service Oriented Architectures.	**CO1**	**K2**	**8**
		OR			
2.	a).	Develop a model of Service description for Web Services.	**CO1**	**K3**	**7**
	b).	Illustrate functional requirements of Grid Computing?	**CO1**	**K2**	**8**
		UNIT - II			
3.	a).	Demonstrate abt the basic services offered by OGSA.	**CO2**	**K2**	**7**
	b).	What are data centres and what is their necessary? Identify the functional requirements of OGSA.	**CO2**	**K3**	**8**
		OR			
4.	a).	Build a model to integrate of Databases with the Grid?	**CO2**	**K3**	**7**
	b).	Explain abt GT4 Architecture.	**CO2**	**K2**	**8**
		UNIT - III			
5.	a).	Identify programming skeletons for parallel programming.	**CO2**	**K3**	**7**
	b).	Explain abt the levels and layers of Single System Image.	**CO2**	**K2**	**8**
		OR			
6.	a).	Analyze the strategies for developing parallel applications.	**CO2**	**K4**	**7**
	b).	Illustrate how the Resrce Management is done in Cluster Computing?	**CO2**	**K3**	**8**
		UNIT – IV			
7.	a).	Explain abt Global Clocks Synchronization.	**CO3**	**K2**	**7**
	b).	Build a setup of simple cluster and setting up of nodes.	**CO3**	**K3**	**8**
		OR			
8.	a).	Build to Configurations of high availability in Cluster Computing?	**CO3**	**K3**	**7**
	b).	Identify the types of failures and errors in Cluster Computing.	**CO3**	**K3**	**8**
		UNIT – V			
9.	a).	Organize different Scheduling policies in Cluster Computing.	**CO3**	**K3**	**7**
	b).	Identify Modelling Parameters of Load Balancing.	**CO3**	**K3**	**8**
		OR			
10.	a).	Choose any two technologies in Cluster and Grid Computing.	**CO3**	**K3**	**7**
	b).	Build Job Management System in Cluster Computing.	**CO3**	**K3**	**8**

CO: Crse tcome
KL: Knowledge Level
M: Marks