B.E. Seventh Semester (Information Technology) (C.B.S.)

Elective - II : Cluster & Grid Computing

P. Pages: 2 Time: Three Hours			 	NKT/KS/17/7506 Max. Marks : 80	
	Note	es: 1. 2. 3. 4. 5. 6. 7. 8. 9.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimensions. Illustrate your answers whenever necessary with the help of neat skillustrate your answers whenever necessary with the help of neat skillustrate.	tetches.	
1.	a)	Define g	grid what are the key distinctions between cluster and grid computing	g? 6	
	b)	Discuss	about cluster middle ware.	7	
2.	a)		OR cluster Architecture.	7	
	b)	_	networking, protocols for clusters.	6	
3.	a)	Discuss	about PARAM cluster system.	6	
	b)	What is	a single system Image? Describe different SSI Layers. OR		
4.	a)	Explain	process scheduling.	7	
	b)	Explain	COMP as cluster system.	6	
5.	a)	Discuss	the characteristics of grid in detail.	6	
	b)	Explain	Grid types and topologies. OR	8	
6.	a)	Discuss	about Grid Architecture.	6	
	b)	Explain	grid components and layers.	08	
7.	a)	Give the	web services architecture with neat explanation.	0/200	
9),	b)	Explain	briefly about Globus GT4 toolkit.	8	
			OR O		

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8.	a)	Write OGSA architecture and its goals.	7
((b)	Explain traditional paradigms for distributed computing.	7
9.	a)	Explain about semantic web services.	7
	b)	Discuss about layered structure of semantic grid.	6
10.		Write short note on. a) Meta fata b) Grid Activities c) Autonomic computing	13
11.	a)	Discuss about grid security Infrastructure.	7
)(b)	Explain briefly about grid monitoring system.	6
		OR O	
12.	a)	Explain grid scheduling and Resource management.	8
	b)	Discuss about scheduling paradigms.	5