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II SEMESTER MCA END SEMESTER EXAMINATIONS MAY 2019 SUBJECT: CLOUD COMPUTING (MCA 4204)

REVISED CREDIT SYSTEM

(04/05/2019)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- Answer ALL FIVE questions.
- Missing data may be suitably assumed.

1A.	With suitable examples and diagrams, explain how Map Reduce works.			5			
1B.	1B. Explain the key aspects used during hardware virtualization with diagram.						
1C.	How Virtual M	fachine resource manage	ment is done in cloud computing?	2			
2A.	Explain any th	nree static and dynamic lo	oad balancing algorithms.	5			
2B.	Process Burst time						
	P1	10					
	P2	4					
	P3	12					
	P4	P4 6					
	For the given data, calculate average waiting time using SJF and Round Robin algorithm (time quantum= 4 units). Draw the Gantt chart for the above data.						
2C.	Differentiate b	etween cluster computing	g and grid computing	2			
3A.	What are the various steps of cloud life cycle? What is the need for the cloud life cycle?						
3B.	Compare and contrast horizontal and vertical scaling with diagrams.						
3C.	i) Multitenar	lowing terms:- ncy independence		2			
				-			

4A.	What are the characteristics of Big Data? Explain the major steps involved in the analysis of big data and challenges associated in handling big data.	5
4B.	Explain key characteristics of IoT communication models.	3
4C.	What are the new security threats in cloud computing?	2
	Total in the total or an arm of virtualization techniques	5
5A.	Explain the taxonomy of virtualization techniques.	3
5B.	With the cloud computing reference model, explain different types of service models.	3
5C.	Write any four laws of Cloudonomics.	2

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