Code: P18CSE16

HALL TICKET NUMBER

PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE (AUTONOMOUS)

IV B.TECH I SEMESTER END REGULAR EXAMINATIONS, NOV-2022 CLOUD COMPUTING

(Common to CSE, CSIT, IT Branches)

Time: 3 hours Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B) PART-A

Answer all the questions in Part-A (5X2=10M)

Q.No.		Questions	Marks	CO	KL
1.	a)	What is the message passing interface?	[2M]	1	1
	b)	Distinguish parallel and distributed programming models.	[2M]	2	4
	c)	What are the cloud services provided by Microsoft Azure?	[2M]	3	1
	d)	What is the role of the mapper and reducer in the Hadoop platform?	[2M]	4	1
	e)	Write about the Apache Hadoop storage model.	[2M]	5	2

PART-B

Answer One Question from each UNIT (5X10=50M)

Q.N	 Ло.	Questions	Marks	СО	KL			
UNIT-I								
2.	a)	What are the applications of HPC and HTC? Discuss.	[5M]	1	1			
	b)	Explain Multicore CPUs and Multithreading technologies.	[5M]	1	2			
OR								
3.	a)	Discuss clusters of cooperative computers and Grid computing infrastructures.	[5M]	1	4			
	b)	Discuss the Service Oriented Architecture (SOA) in detail.	[5M]	1	4			
UNIT-II								
4.	a)	Explain Implementation levels of virtualizations.	[5M]	2	2			
	b)	Why OS level Virtualization required? Discuss the advantages and disadvantages of OS extensions.	[5M]	2	1			
OR								
5.	a)	What is Memory virtualization? Explain two-level memory mapping procedure.	[5M]	2	1			
	b)	What is I/O virtualization? Explain the three types of I/O Virtualization.	[5M]	2	1			
UNIT-III								
6.	a)	List and explain service models of cloud computing with architectures.	[5M]	3	1			
	b)	Discuss the IaaS (Infra Structure as a Service) and its public cloud offerings.	[5M]	3	4			
		OR						
7.	a)	Illustrate a neat sketch of the Google cloud platform and explain.	[5M]	3	2			
	b)	Explain the AWS architecture and its applications in detail.	[5M]	3	2			
		UNIT-IV						
8.	a)	Explain two runtime software environments developed by Microsoft i) Dryad ii) DryadLINQ	[5M]	4	2			
	b)	Explain Google file systems.	[5M]	4	2			
OR								

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9.	a)	Explain Amazon Elastic Block Structure (EBS) & Simple DB.	[5M]	4	2			
	b)	What about Amazon EC2 instances? Explain the Amazon EC2 execution environment with a neat diagram.	[5M]	4	1			
	UNIT-V							
10.	a)	Explain two-level resource allocation architecture with a neat diagram.	[5M]	5	2			
	b)	Discuss the start-time fair queuing scheduler for multimedia operating systems.	[5M]	5	4			
OR								
11.		What is Bigtable? How it is related to GFS?	[10M]	5	1			
