Printed I	d Page:-04 Subject	Code:- ACSAI0621/ACSAIH0621				
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	NOTES INSTITUTE OF ENGINEERING AND TES	LINOLOGY CREATER NOTRA				
NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA  (An Autonomous Institute Affiliated to AKTU, Lucknow)						
B.Tech						
SEM: VI - THEORY EXAMINATION (2023 2024)						
	Subject: Big Data					
	3 Hours	Max. Marks: 100				
	al Instructions:					
	erify that you have received the question paper with the control of the control o					
	<b>1.</b> This Question paper comprises of <b>three Sections -A, B, &amp; C.</b> It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.					
2. Maximum marks for each question are indicated on right -hand side of each question.						
	rate your answers with neat sketches wherever neces					
	me suitable data if necessary.					
5. Prefera	rably, write the answers in sequential order.					
<b>6.</b> No sh	sheet should be left blank. Any written mater	ial after a blank sheet will not be				
evaluatea	ed/checked.					
	SECTION A	20				
1. Attem	mpt all parts:-	P				
1-a.	Among the following are the Benefits of Big Da	ta Processing. (CO1)				
	(a) Businesses can utilizeoutside intellige	ncewhile taking decisions				
	(b) Better operational efficiency					
	(c) Improve customer service					
	(d) All of the above					
1-b.	Big data analysis does the following except. (Co	O1) 1				
	(a) Spreads data					
	(b) Analyze data					
	(c) Organises Data					
	(d) Collects data					
1-c.	Name of C++ interface to hadoop map reduce.	(CO2) 1				
	(a) Hadoop streaming					
	(b) Hadoop Pipes					
	(c) Mahaout					

	(d) Oozie	
1-d.	Used for collection and ingestion of semi-structured data. (CO2)	1
	(a) Hbase	
	(b) PIG	
	(c) Flume	
	(d) Sqoop	
1-e.	Hadoop streaming allows running map reduce program in which of the languages are used (CO3)	1
	(a) R	
	(b) Python	
	(c) Pearl	
	(d) All of the above	
1-f.	Which one is name of the C++ interface to hadoop mapreduce? (CO3)	1
	(a) Hadoop streaming	
	(b) Hadoop Pipes	
	(c) Mahaout	
	(d) Oozie	
1-g.	It is not a property of cloud computing? (CO4)	1
	(a) virtualization	
	(b) composability	
	(c) scalability	
	(d) all of the mentioned	
1-h.	It is an example of a SaaS cloud service? (CO4)	1
	(a) Google Workspace	
	(b) Dropbox	
	(c) Salesforce	
	(d) All of the above	
1-i.	firewalls are a combination of other three types of firewalls.	1
	(CO5)	
	(a) pocket filtering	
	(b) circuit level gateway	
	(c) Application level gateway	
	(d) statefull multilayer inspection	

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1-j.	Physical or logical arrangement of network is (CO5)	1		
	(a) Topology			
	(b) Routing			
	(c) Networking			
	(d) Control			
2. Atten	npt all parts:-			
2.a.	Define Veracity. (CO1)	2		
2.b.	Define Edit logs. (CO2)	2		
2.c.	Explain Hadoop archives? (CO3)	2		
2.d.	List out any two components of Open Stack. (CO4)	2		
2.e.	Define Cloud Datastore. (CO5)	2		
	SECTION B	30		
3. Answ	er any <u>five</u> of the following:-			
3-a.	How data integration, visualization, transmission could be a challenge for conventional systems. (CO1)	6		
3-b.	Differentiate between Parallel and Distributed computing. (CO1)	6		
3-c.	Can you explain the MR frameworks. (CO2)	6		
3-d.	Write internal procedure of Map reduce work. (CO2)	6		
3.e.	Elaborate SCALA ? Explain all the components in SCALA. (CO3)	6		
3.f.	Explain Cloud service model in detail. (CO4)	6		
3.g.	Define the NoSQL Bigdata services in cloud. (CO5)	6		
	SECTION C	50		
4. Answ	er any <u>one</u> of the following:-			
4-a.	How Cloud Computing provides scalability and fault tolerance. (CO1)	10		
4-b.	Explain in terms of cloud computing - (A) On demand Services (B) Elasticity on demand (C) Reliability (D) Resource pooling (CO1)	10		
5. Answ	er any <u>one</u> of the following:-			
5-a.	Explain MRv2 in detail with all it's components. (CO2)	10		
5-b.	Explain in detail the following terms related to YARN. (1) Resource Manager (2) Node Manager (3) HBASE (4) Container (CO2)	10		
6. Answer any <u>one</u> of the following:-				
6-a.	Explain in detail about HDFS. Write all advantages.(CO3)	10		

6-b.	Write all the differences between regular FileSystem and HDFS. (CO3)	10
7. Answ	ver any <u>one</u> of the following:-	
7-a.	Explain Conceptual level, Logical and operational level and Infrastructure level in terms of Cloud Federation. (CO4)	10
7-b.	Explain the need of Cloud Computing in Hadoop in detail. (CO4)	10
8. Answ	er any <u>one</u> of the following:-	
8-a.	Define IP Address. Explain Classification of its classes. (CO5)	10
8-b.	Explain the benefits, advantages, usage and features of of VPC. (CO5)	10

