Q. Code:625490

Reg. No. | | | | | | | | | | | | | |

B.E./ B. TECH.DEGREE EXAMINATIONS, MAY 2023

Sixth Semester

OE18508-INTRODUCTION TO CLOUD AND BIG DATA ANALYTICS

(Regulation2018/2018A)

TIME:3 HOURS **MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Able to be learn the fundamentals of cloud computing.	**2**
CO 2	Able to understand the cloud infrastructure	**3**
CO 3	Able to understand the concept of virtualization that is fundamental to cloud computing	**3**
CO 4	Able to analyze the security issues in cloud computing	**2**
CO 5	Able to understand the concepts of big data	**4**

PART- A(10x2=20Marks)

(Answer all Questions)

		CO	RBT LEVEL
1.	Distinguish the term HPC and HTC in terms of QoS.	**1**	**4**
2.	List the essential characteristics of cloud computing.	**1**	**3**
3.	Justify the need of OVF in Virtual Machines.	**2**	**4**
4.	Prioritize the various design goals to be satisfied to build Cloud architecture.	**2**	**4**
5.	Analyze how Full virtualization differs from Para virtualization.	**3**	**4**
6.	Discuss about physical cluster and virtual cluster.	**3**	**2**
7.	How does cloud computing ensure security?	**4**	**1**
8.	Define the ways to model the trust among peers in Peer Trust Characteristics.	**4**	**1**
9.	List the purpose of heartbeat signal in Hadoop.	**5**	**3**
10.	Write the usage of data mutation in Google file system?	**5**	**3**

PART- B (5x 14=70Marks)

			Marks	CO	RBT LEVEL
11. (a)		Discuss in detail about the technologies that are supported for the Network Based System.	**(14)**	**1**	**4**
		(OR)			
(b)	**(i)**	Examine the merits and demerits of Cloud deployment models: public, private, hybrid, community.	**(8)**	**1**	**4**
	(ii)	Elaborate on Cloud Eco System with various Objectives and Cost Model.	**(6)**	**1**	**4**
12. (a)		Examine in detail about the Architecture for Generic Cloud and layered approach to enable the Security aware Cloud platform and for offering the services.	**(14)**	**2**	**4**
		(OR)			
(b)		Analyze the common design challenges of Cloud Computing also explain how to overcome those challenges.	**(14)**	**2**	**4**
13. (a)		Illustrate the following Virtualization in detail: (i) CPU virtualization (ii) Memory Virtualization (iii) I/O Devices	**(14)**	**3**	**2**
		(OR)			
(b)		Explain in detail about the implementation level of Virtualization.	**(14)**	**3**	**2**
14. (a)		Examine about the following Cloud Security management: (i). Cloud Security Defense Strategies (ii).Distributed Intrusion and anomaly detection	**(14)**	**4**	**4**
		(OR)			
(b)		Analyze in detail about the Data and Software Protection techniques in Cloud Security.	**(14)**	**4**	**4**
15. (a)		Discuss in detail about the HDFS with Map Reduce operation?	**(14)**	**5**	**4**
		(OR)			
(b)		Examine in detail about the Google App Engine with functional Modules.	**(14)**	**5**	**4**

PART- C (1x 10=10Marks)

(Q.No.16 is compulsory)

		Marks	CO	RBT LEVEL
16.	How to deploy and develop NIST Cloud Reference Architecture with the example Usage Scenario for Cloud Brokers, Cloud Carriers and the Cloud Auditors.	**(10)**	**1**	**2**

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