

School of Engineering and Technology School: Mtech - Computer Science and Engineering Program/s:

Year: 2<sup>nd</sup> Semester: 3rd

End Semester Examination **Examination:** 

December - 2021 **Examination year:** 

Course Name: Cloud Computing Concepts Course Code: CS247

Date: 01/12/2021

**Total Marks: Total Pages:** 03 Time: 08:30 am to 10:30 am

## Instructions:

→ Write each answer on a new page.

→ Use of a calculator is permitted/not permitted.

→ \* COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	COs*	BTL#
Q.1	Attempt the Following Questions:	10		
1.	Cloud Service Provider typically web based management consoles that provides users insight on the state of cloud services .What is one technology used in the client side browser code that queries backend system for data from the cloud services.  a) XHTML b) AJAX		CO1	1,2,3,6
2.	c) PHP d) HTML In Grid Computing model, server or personal computers run a) Dependently b) InDependently c) Concurrently		CO1	1,2,3,6
3.	d) Horizonntally An architecture that moves the client query to a middle tier so that stateless clients can be used to call  a) Peer-Peer Architecture		CO1	1,2,3,6
	b) Master-Slave Architecture c) Client - Server Architecture d) Three-Tier Architecture			
4.	Which element in SOA centrally registers services metadata for discoverability purpose  a) service composition b) service registry c) service inventory d) service model		CO1	1,2,3,6

	a) setup GPT environment variable			
	b) setup globus environment variable			
	c) create a user name globus			
(	d) create two directories  Above the file systems comes the engine, which consists of one		CO4	1,2,3
6.	Job Tracker, to which client applications submit MapReduce jobs.2.0			- 2 - 2
	a) MapReduce			
	b) Google			
	c) Functional programming			
	d) Facebook		001	1 0 0
7.	What was Hadoop written in?		CO4	1,2,3
	a) Java (software platform)			
	b) Perl			
	c) Java (programming language)			
	d) Lua (programming language)		CO4	1,2,3,
8.	Which of the following platforms does Hadoop run on?		COT	1,2,5,
	<ul><li>a) Bare metal</li><li>b) Debian</li></ul>			
	c) Cross-platform			
	d) Unix-like			
9.	is a utility which allows users to create and run jobs with any		CO4	1,2,3,
	executables as the mapper and/or the reducer			
	) II 1 - Ct 1-t-			
	<ul><li>a) Hadoop Strdata</li><li>b) Hadoop Streaming</li></ul>			
	c) Hadoop Stream			
	d) None of the mentioned			
10.	The number of maps is usually driven by the total size of		CO4	1,2,3
	a) Inputs			
	b) Outputs c) Tasks			
	c) Tasks d) None of the mentioned			
	a) 11010 01 1110 111011111111			
2.2	Attempt the following questions	5		
	the following is a key mechanism for protecting data		CO5	1,2,3
1.	the following is a key mechanism for protecting data		000	1,2,5
2.	Like DES, AES also uses Feistel Structure		CO5	1,2,3
	a) True			
	b) False			
			COF	1 2 2
3.	AES uses a bit block size and a key size of bits.		CO5	1,2,3
4.	The word Grid in Grid Computing comes from an analogy to the Power		CO1	1,2,3,6
٦.	Grid.			
5.	SLA stands for		CO5	1,2,3
	Attempt (Any 5) from the following questions.	25		
Q.3	Attempt (Any 3) from the following questions.			
1.	Explain Grid Computing with it's several benefits.		CO <sub>1</sub>	1,2,3,6
•	Full-to Type and and integrated with systemic diagram		CO1	1,2,3,6
2.	Explain Intragrid and intergrid with suitable diagram		201	
3.	Explain is OGSA and its environment		CO <sub>1</sub>	1,2,3,6

4.	Explain GridFTP	CO1	1,2,3,6
5.	Explain Hadoop with its Architecture.	CO4	1,2,3
6.	Explain MapReduce .	CO4	1,2,3
7.	Define:	CO4	1,2,3
	a) PayLoad		

b) Mapper

c) NamedNode

d) DataNode

e) MasterNode

\*\*\*\*\*\*\*\*\*\*\*\*End of Question Paper\*\*\*\*\*\*\*