Enrollment No.....................................

Faculty of Engineering
End Sem (Even) Examination May-2022
OE00074 Cloud Web Services

Programme: B.Tech.   Branch/Specialisation: All

Duration: 3 Hrs.   **Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1 i. Which of the following are the features of cloud computing? **1**
(a) Security   (b) Availability
(c) Large Network Access   (d) All of these

ii. Which of the following is a type of cloud computing service? **1**
(a) Service-as-a-Software (SaaS)
(b) Software-and-a-Server (SaaS)
(c) Software-as-a-Service (SaaS)
(d) Software-as-a-Server (SaaS)

iii. Applications and services that run on a distributed network using **1** virtualized resources is known as _____.
(a) Parallel computing   (b) Cloud computing
(c) Distributed computing   (d) Soft computing

iv. Which one of the following is not a function of network layer? **1**
(a) Routing   (b) Inter-networking
(c) Congestion control   (d) Error control

v. Which of the following allows you to create instances of the MySQL **1** database to support your Web sites?
(a) Amazon elastic compute cloud
(b) Amazon simple queue service
(c) Amazon relational database service
(d) Amazon simple storage system

vi. Which of the following is a structured data store that supports **1** indexing and data queries to both EC2 and S3?
(a) CloudWatch   (b) Amazon SimpleDB
(c) Amazon Cloudfront   (d) Docker

vii.   Point out the correct statement of the following: **1**
    (a) Amazon.com's services represent the largest pure Infrastructure as a Service (IAAS).
    (b) SQL Server is having enormous impact on cloud computing.
    (c) EC2 is a Platform as a Service (PaaS) market.
    (d) EC2 is a product of google.

viii. Which of the following is an online backup and storage system?   **1**
    (a) Amazon elastic compute cloud
    (b) Amazon simple queue service
    (c) Amazon simple notification service
    (d) Amazon simple storage system

ix.   Which of the following metrics are used to support elastic load balancing?   **1**
    (a) CloudWatch
    (b) Amazon Elastic Block Store
    (c) AWS Import/Export
    (d) All of these

x.   Which of the following feature is used for scaling of EC2 sites?   **1**
    (a) Auto Replica   (b) Auto Scaling
    (c) Auto Ruling   (d) Auto Sensing

Q.2 i.   What is cloud Computing?   **2**
    ii.   Explain software as a service with example.   **3**
    iii. Describe the arcitecture of Google file system.   **5**
OR iv. What is map reduce? Explain with an exapmle.   **5**

Q.3 i.   What is the role of network in cloud computing?   **2**
    ii.   Explain IP classes in details with suitable diagram.   **8**
OR iii. Explain the following.   **8**
    (a) Amazon elastic block storage
    (b) Management of instaces in cloud.

Q.4 i.   What is the use of API's in cloud services?   **3**
    ii.   Write short notes on: **7**
    (a) Amazon simple queue service
    (b) Apache Instances in EC2

OR iii. What is the requirement of virtualization platform in implementing cloud? Briefly explain the implemntaion of virtual host.   **7**

Q.5 i.   For a transport in cloud how you can secure your data?   **4**
    ii.   What are the security aspects provided with cloud?   **6**
OR iii. Explain in brief: **6**
    (a) Backup and recovery
    (b) Firewall

Q.6   Attempt any two:
    i.   What is the difference between elasticity and scalability in cloud computing?   **5**
    ii.   Describe amazon elastic load balacing in deatils.   **5**
    iii. Explain the role of hybrid cloud for enterprise in detail.   **5**

******

Marking Scheme - OE00074 Cloud Web Services

Q.1 i. Which of the following are the features of cloud computing? **1**
(d) All of these

ii. Which of the following is a type of cloud computing service? **1**
(c) Software-as-a-Service (SaaS)

iii. Applications and services that run on a distributed network using virtualized resources is known as _____. **1**
(b) Cloud computing

iv. Which one of the following is not a function of network layer? **1**
(d) Error control

v. Which of the following allows you to create instances of the MySQL database to support your Web sites? **1**
(c) Amazon relational database service

vi. Which of the following is a structured data store that supports indexing and data queries to both EC2 and S3? **1**
(b) Amazon SimpleDB

vii. Point out the correct statement of the following: **1**
(a) Amazon.com's services represent the largest pure Infrastructure as a Service (IAAS).

viii. Which of the following is an online backup and storage system? **1**
(d) Amazon simple storage system

ix. Which of the following metrics are used to support elastic load balancing? **1**
(a) CloudWatch

x. Which of the following feature is used for scaling of EC2 sites? **1**
(b) Auto Scaling

Q.2	i.	Cloud Computing	2 marks	**2**
	ii.	Explain software as a service with	2 marks	**3**
		Example	1 mark	
	iii.	Explanation	2.5 marks	**5**
		Diagram	2.5 marks	
OR	iv.	Explain map reduce	2.5 marks	**5**
		Explain with an exapmle	2.5 marks	

Q.3	i.	Explain role of network	2 marks	**2**
	ii.	Explain IP classes in details	5 marks	**8**
		Diagram	3 marks	
OR	iii.	Explain the following.		**8**
		(Explnation + Diagram) of each		
		(a) Amazon elastic (2+2)	4 marks	
		(b) Management of (2+2)	4 marks	

Q.4	i.	Explanation	2 marks	**3**
		Diagram	1 marks	
	ii.	Write short notes on:		**7**
		(a) Amazon simple queue service	3.5 marks	
		(b) Apache Instances in EC2	3.5 marks	
OR	iii.	Requirement of virtualization	3.5 marks	**7**
		Briefly explain the implemntaion	3.5 marks	

Q.5	i.	For a transport in cloud how you can secure your data?		**4**
		Explanation	2 marks	
		Example	2 marks	
	ii.	What are the security aspects provided with cloud?		**6**
		Explanation	4 marks	
		Example	2 marks	
OR	iii.	Explain in brief:		**6**
		(a) Backup and recovery	3 marks	
		(b) Firewall	3 marks	

Q.6		Attempt any two:		
	i.	Elasticity	2.5 marks	**5**
		Scalability	2.5 marks	
	ii.	Explanation	2.5 marks	**5**
		Diagram	2.5 marks	
	iii.	Explain the role of hybrid cloud for enterprise in detail.		**5**
		Explanation	2.5 marks	
		Diagram	2.5 marks	

******