

Enrollment No.....



Faculty of Engineering  
End Sem Examination May-2023  
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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. What does S3 stand for in AWS? **1**  
 (a) Simple storage service (b) Standard storage service  
 (c) Simple standard storage (d) Simple standard service
- ii. In AWS, IAM identities are categorized into how many parts? **1**  
 (a) 1 (b) 2 (c) 3 (d) 4
- iii. Classless Addressing overcomes the problem of- **1**  
 (a) Address completion (b) Address depletion  
 (c) Address extraction (d) All of these
- iv. What is the size of host bits in class B of IP address? **1**  
 (a) 4 (b) 8 (c) 16 (d) 32
- v. Which of the following allows you to create instances of the MySQL database to support your Web sites? **1**  
 (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 indexing and data queries to both EC2 and S3? **1**  
 (a) CloudWatch (b) Amazon SimpleDB  
 (c) Amazon Cloudfront (d) All of these
- vii. 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

P.T.O.

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- viii. Point out the correct statement: **1**
- (a) To create an image backup of an active system, you may need to stop all application
  - (b) To create an incremental backup of an active system, you may need to stop all applications
  - (c) Differential backup allows a system to do what is referred to as a bare metal restore
  - (d) All of these
- ix. Which of the following dynamically grow and shrink the load-balancing capacity to adjust to traffic demands? **1**
- (a) Amazon Cloud-front
  - (b) Elastic Caches
  - (c) Amazon RDS
  - (d) Elastic Load Balancing
- x. Which of the following provides a bridge between a company's existing network and the AWS cloud? **1**
- (a) Amazon Virtual Private Cloud
  - (b) AWS Premium Support
  - (c) Amazon Fulfillment Web Services
  - (d) All of these
- Q.2 i. What is MapReduce in cloud computing? Explain the features of MapReduce. **4**
- ii. What is cloud computing? Differentiate various cloud service models. **6**
- OR iii. Explain the Simple Storage Service and Elastic Cloud Compute. **6**
- Q.3 i. What is CIDR? Explain the difference between gateway and router. **4**
- ii. What is elastic block storage? Why do we use elastic block storage? **6**
- OR iii. Explain the instances management and image management. **6**
- Q.4 i. What is Amazon simple queue service? Explain the characteristic of Amazon simple queue service. **4**
- ii. Write a short note on: **6**
- (a) Virtual hosts
  - (b) Relational database Service
- OR iii. What is Amazon Simple DB? How do we create a simple database on AWS? **6**
- Q.5 i. What is data backup? Why is it important? **4**
- ii. Explain the database sharding with example. **6**
- OR iii. What is a firewall? How do firewalls work? **6**

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- Q.6 Attempt any two:
- i. What is a load balancer in AWS? What are the various types of load balancers in AWS? **5**
- ii. What is the auto-scaling group? How do we use auto-scaling in Amazon EC2? **5**
- iii. Short note on: **5**
- (a) DHCP
  - (b) DNS

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## Marking Scheme

### OE00074 Cloud Web Services

Q.1	i)	What does S3 stand for in AWS?	1
		a.) Simple storage service	
	ii)	In AWS, IAM identities are categorized into how many parts?	1
		c. 3	
	iii)	Classless Addressing overcomes the problem of –	1
		b) address depletion	
	iv)	What is the size of host bits in class B of IP address?	1
		c)16	
	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)	Which of the following is an online backup and storage system?	1
		d) Amazon Simple Storage System	
	viii)	Point out the correct statement.	1
		a) To create an image backup of an active system, you may need to stop all application	
	ix)	Which of the following dynamically grow and shrink the load-balancing capacity to adjust to traffic demands?	1
		D. Elastic Load Balancing	
	x)	Which of the following provides a bridge between a company's existing network and the AWS cloud?	1
		a) Amazon Virtual Private Cloud	
Q.2	i.	What is MapReduce in cloud computing? (2 marks) Explain the features of MapReduce? (2 marks)	4
	ii.	What is cloud computing? (3 marks) Differentiate between various cloud service models. (3 marks)	6
OR	iii.	Explain the Simple Storage Service (3 marks)and Elastic Cloud Compute. (3 marks)	6

Q.3	i.	What is CIDR? (2 marks)Explain the difference between gateway and router. (2 marks)	4
	ii.	What is elastic block storage? (3 marks) why do we use elastic block storage? (3 marks)	6
OR	iii.	Explain the instances management (3 marks)and image management. (3 marks)	6
Q.4	i.	What is Amazon simple queue service? (2 marks)Explain the characteristic of Amazon simple queue service? (2 marks)	4
	ii.	Write a short note on a) Virtual hosts (3 marks) b) Amazon Simple DB(3 marks)	6
OR	iii.	What is Amazon Simple DB? (3 marks)How do we create a simple database on AWS? (3 marks)	6
Q.5	i.	What is data backup (2 marks)and why is it important? (2 marks)	4
	ii.	Explain the database sharding (3 marks)with example(3 marks).	6
OR	iii.	What is a firewall? (3 marks)How do firewalls work? (3 marks)	6
Q.6		Attempt any two:	
	i.	What is a load balancer in AWS? (2.5 marks) What are the various types of load balancers in AWS? (2.5 marks)	5
	ii.	What is the auto-scaling group? (2.5 marks)How do we use auto-scaling in Amazon EC2? (2.5 marks)	5
	iii.	Short note on DHCP (2.5 marks) b) DNS (2.5 marks)	5

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