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Enrollment No.....



Faculty of Science
End Sem Examination Dec-2023
BC3ET03 Cloud Web Services

Programme: B.Sc.

Branch/Specialisation: Computer
Science

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. Which tool can you use to forecast your AWS spending? **1**
(a) AWS Organisation (b) Amazon Dev Pay
(c) AWS Trusted advisor (d) AWS Cost Explorer
- ii. Which one of the following is Cloud Platform by Amazon? **1**
(a) Azure (b) AWS (c) Cloudera (d) All of these
- iii. Which of the following are the components of AWS infrastructure? **1**
(a) Edge location (b) Regions
(c) Availability zone (d) All of these
- iv. _____ are used to grant permissions to your IAM Users to access AWS resources within your own or different account. **1**
(a) IAM root user
(b) IAM groups
(c) IAM roles
(d) None of these
- v. How would a system administrator add an additional layer of login security to a user's AWS Management Console? **1**
(a) Use Amazon Cloud Directory
(b) Audit AWS Identity and Access Management (IAM) roles
(c) Enable multi-factor authentication
(d) Enable AWS CloudTrail

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- vi. Which of the following is the responsibility of the customer to ensure the availability and backup of the EBS volumes? **1**
 (a) Delete the data and create a new EBS volume
 (b) Create EBS snapshots
 (c) Attach new volumes to EC2 Instances
 (d) Create copies of EBS Volumes.
- vii. What is the AWS feature that enables fast, easy and secure transfers of files over long distances between your client and your Amazon S3 bucket? **1**
 (a) File Transfer
 (b) HTTP Transfer
 (c) Amazon S3 Transfer Acceleration
 (d) S3 Acceleration
- viii. Amazon S3 is which type of storage service? **1**
 (a) Object (b) Block (c) Simple (d) Secure
- ix. Which AWS networking service enables a company to create a virtual network within AWS? **1**
 (a) AWS Config
 (b) Amazon Route 53
 (c) AWS Direct Connect
 (d) Amazon Virtual Private Cloud (Amazon VPC)
- x. Which component of the AWS global infrastructure does Amazon CloudFront use to ensure low-latency delivery? **1**
 (a) AWS Regions (b) Edge locations
 (c) Availability Zones (d) Virtual Private Cloud (VPC)
- Q.2 i. What do you understand by AWS Virtual Private Cloud? **2**
 ii. Is there any other alternative tool to log into the cloud environment other than console? **3**
 iii. Define and explain the three basic types of cloud services and the AWS products that are built based on them. **5**
- OR iv. What are the tools and techniques that you can use in AWS to identify if you are paying more than you should be, and how to correct it? **5**
- Q.3 i. What is auto-scaling in cloud computing? **4**

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- ii. How to Create New Images of Running Instances in EC2? **6**
 OR iii. Define Amazon EC2 regions and availability zones. **6**
 Define EC2 Instance types and uses.
- Q.4 i. Why IAM is important in AWS? What is its role and how it is done? **4**
 ii. What are the native AWS Security logging capabilities? **6**
 OR iii. Describe AWS Messaging Services (SNS, SQS, SES) **6**
- Q.5 i. What is difference between bucket and object in Amazon Storage? **4**
 ii. What are the Storage Classes available in Amazon S3? **6**
 OR iii. How can you recover/login to an EC2 instance for which you have lost the key? **6**
- Q.6 Attempt any two:
 i. Name and explain some security products and features available in VPC. **5**
 ii. How to set up a Security Group in AWS? **5**
 iii. How many Subnets can you have per VPC? How do you connect multiple sites to a VPC? **5**

Scheme of Marking

Cloud Web Services-BC3ET03(T)

Q.1	i)	d) AWS Cost Explorer	1	OR	Q.4	i.	IAM is important in AWS, what is its role and how it is done- 1 marks each	3
	ii)	b)AWS	1		ii.	Define AWS Security logging capabilities	7	
	iii)	d) All of the above	1		iii.	AWS Messaging Services (SNS, SQS, SES)- 2mark each, 1 mark for example	7	
	iv)	c)IAM roles	1					
	v)	c) Enable multi-factor authentication	1		Q.5	i.	difference between bucket and object in Amazon Storage (3 differences -1 mark each)	3
	vi)	b)Create EBS snapshots	1		ii.	Storage Classes available in Amazon S3 are (define any 7-1 mark each)	7	
	vii)	c)Amazon S3 Transfer Acceleration	1					
	viii)	a)Object	1					
	ix)	d) Amazon Virtual Private Cloud (Amazon VPC)	1					
	x)	b) Edge locations	1					
Q.2	i.	AWS Virtual Cloud Definition	2	OR	Q.5	iii.	recover/login to an EC2 instance for which you have lost the key following steps are taken, explain in detail	7
	ii.	Define various other tools available (at least 3) from the list - Putty, AWS CLI for Linux, AWS CLI for Windows, AWS CLI for Windows CMD, AWS SDK, Eclipse	3					
	iii.	Three basic services are-Computing, Storage, Networking Define them n write products based on them	5					
	OR	iv.	Write different payments tools available in AWS.					
Q.3	i.	auto-scaling definition	2	Q.6			Attempt any two:	
	ii.	Steps to create New Images of Running Instances in EC2 with example.	8					

- i. Name and explain some security products and feature available in VPC **5**
- ii. to set up a Security Group in AWS **5**
- iii. many Subnets can you have per VPC(by default 100 subnets are created)-1 marks **5**
do you connect multiple sites to a VPC-4 marks
