**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **4BT7121** | Roll No. | Total Printed Pages: 2 |
| **4BT7121** |  |
| B. Tech. IV Year VII-Semester (Main/Back) End Semester Examination, November 2022  **(CC)** | |
| **BCC07104 : Cloud Web Services** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is an internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question/part. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of the following supporting material is permitted during the examination for this subject.

# **1.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | What are the different types of cloud computing service delivery models? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Distinguish between AWS systems management and monitoring options. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.2** | **(a)** | Illustrate the different types of security techniques that are implemented to make cloud computing systems. | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | Explain the various AWS storage options with suitable examples. | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Classify the different EC2 instance types according to their AWS usage with suitable examples. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | How well it can be done by an AWS system development engineer to convert an AMI for instance storage to an AMI for an EBS? | **(6)** | **Evaluate** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.4** | **(a)** | How do we create an EC2 image from a running instance? Elaborate with a suitable example. | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | What is AWS Elastic IPs, and what do they do? How much do they Cost? How to Provision an Elastic IP. | **(6)** | **Knowledge** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Define the various AWS messaging services   1. Simple Queue Service (SQS) 2. Simple Notification Service (SNS) 3. Simple Email Service (SES) | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | What do you mean by Amazon CloudWatch? Explain different terminologies related to Amazon CloudWatch. Define Amazon CloudWatch use case steps. Describe the advantages of Amazon CloudWatch. | **(6)** | **Evaluate** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.6** | **(a)** | How do we launch an application on AWS Beanstalk? Describe using a suitable example. | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | Give an overview of the AWS Key Management Service (KMS). How are AWS KMS keys created and managed? | **(6)** | **Knowledge** |
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|  |  | **UNIT-IV (CO4)** |  |  |
|  |  |  |  |  |
| **Q.7** | **(a)** | How the Storage in Amazon Simple Storage Service (S3) Operates. Define the Amazon S3 buckets and objects. | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | Elaborate on the various steps for creating a web server using S3 Endpoints. Is it possible for both Static and Dynamic websites? | **(6)** | **Analyze** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | Explain AWS Glacier terminology. Define the various features of AWS Glacier. How data transfer is done in Glacier. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | What distinguishes Dynamo and DynamoDB from one another? Describe the Dynamo trade-offs in AWS. | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
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| **Q.9** | **(a)** | Explain the various steps in setting up an AWS Virtual Private Cloud (VPC) with suitable diagrams. | **(6)** | **Evaluate** |
|  |  |  |  |  |
|  | **(b)** | Create a scenario with an explanation for a VPC with public and private subnets with AWS Site-to-Site VPN access. | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | What does Linux's Access Control List (ACL) perform? Discuss the merits, types, and features of ACL. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Build a scenario for VPC with a single public subnet. Explain the IPv6 configuration procedure with a routing table and security issues. | **(6)** | **Create** |