**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, April 2023**

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|  | **2BC4189** | Roll No. | Total Printed Pages: 2 |
| **2BC4189** |  |
| BCA II Year IV-Semester (Main/Back) End Semester Examination, April 2023  **(Cloud)** | |
| **BCTCCA4103 : Cloud Web Services** | | | |

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

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. 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 following supporting material is permitted during examination for this subject.

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

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | What is cloud? Explain its feature, services and deployment models. | **(6)** | **L1** |
|  |  |  |  |  |
|  | **(b)** | Explain the cloud security challenges | **(6)** | **L2** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.2** | **(a)** | Discuss the various available cloud services or applications for individuals. | **(6)** | **L6** |
|  |  |  |  |  |
|  | **(b)** | Explain about amazon web services and amazon virtual private cloud in detail. | **(6)** | **L2** |
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|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Explain the techniques required to launch an EC2 Linux instance and connect to it. | **(6)** | **L2** |
|  |  |  |  |  |
|  | **(b)** | Explain Scheduling map reduce applications subject to deadline, resource management and dynamic scaling. | **(6)** | **L2** |
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|  |  | **OR** |  |  |
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| **Q.4** |  | Explain the amazon elastic compute cloud (EC2) and architecture of eucalyptus | **(12)** | **L2** |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Distinguish cloud computing from outsourcing and provision of application service | **(6)** | **L4** |
|  |  |  |  |  |
|  | **(b)** | Explain the best practices to build an application on cloud | **(6)** | **L2** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.6** | **(a)** | What is the difference between SES,SQS and SNS | **(6)** | **L1** |
|  |  |  |  |  |
|  | **(b)** | Explain amazon cloud watch with logs | **(6)** | **L2** |
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|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | Explain the techniques for the risk assessment and management for cloud | **(6)** | **L2** |
|  |  |  |  |  |
|  | **(b)** | What are the important security aspects in amazon web services also explain the amazon web services identity and access management (IAM) | **(6)** | **L1** |
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|  |  | **OR** |  |  |
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| **Q.8** | **(a)** | Illustrate amazon web service directory web services. | **(6)** | **L2** |
|  |  |  |  |  |
|  | **(b)** | Distinguish between encryption at rest and in motion also three stages of data at rest and motion | **(6)** | **L4** |
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|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | Draw and explain the storage system architecture of cloud | **(6)** | **L3** |
|  |  |  |  |  |
|  | **(b)** | Explain the S3 bucket. Define all types of storage classes in AWS S3 | **(6)** | **L2** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.10** | **(a)** | Write down the differences between S3 and EBS | **(6)** | **L1** |
|  |  |  |  |  |
|  | **(b)** | What are some of the main features of amazon RDS | **(6)** | **L1** |