**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **2BC3156** | Roll No. | Total Printed Pages: 1 |
| **2BC3156** |  |
| BCA II Year III- Semester (Main/Back) End Semester Examination, November 2022  **(Cloud)** | |
| **BCTCCA3104 : Principles of Virtualization** | | | |

# 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? What are its role in today’s era? | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Write about cloud deployment model. | **(6)** | **Applying** |
|  |  | **OR** |  |  |
| **Q.2** | **(a)** | Define hypervisor. How it participant in virtualization? | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Explain types of virtualization. | **(6)** | **Applying** |
|  |  | **UNIT-II (CO2)** |  |  |
| **Q.3** | **(a)** | Explain VMware. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | How we can create virtual machine using VMware.. | **(6)** | **Applying** |
|  |  | **OR** |  |  |
| **Q.4** | **(a)** | Define VMware Sphere. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Write about Load balancing. | **(6)** | **Applying** |
|  |  | **UNIT-III (CO3)** |  |  |
| **Q.5** | **(a)** | Explain distributed resource scheduler (DRS). | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Write about NSX. | **(6)** | **Analyze** |
|  |  | **OR** |  |  |
| **Q.6** | **(a)** | Write about scalability challenges. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Explain cloud security uses. | **(6)** | **Analyze** |
|  |  | **UNIT-IV (CO4)** |  |  |
| **Q.7** | **(a)** | Define V Motion. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Define fault tolerance. | **(6)** | **Applying** |
|  |  | **OR** |  |  |
| **Q.8** | **(a)** | Explain V sphere replication. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | What are the roles of virtual machine? | **(6)** | **Applying** |
|  |  | **UNIT V (CO5)** |  |  |
| **Q.9** | **(a)** | Define network optimization. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Explain migration of virtual machine. | **(6)** | **Analyze** |
|  |  | **OR** |  |  |
| **Q.10** | **(a)** | Write about V sphere distributed switches. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Explain CPU optimization. | **(6)** | **Analyze** |