**POORNIMA UNIVERSITY, JAIPUR.**

**END SEMESTER EXAMINATION, April 2023**

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|  | **2BC4190** | Roll No. | Total Printed Pages: 2 |
| **2BC4190** |  |
| BCA II Year IV- Semester (Main/Back) End Semester Examination, April 2023  **(Cloud)** | |
| **BCTCCA4104 : Network Administration** | | | |

# Max. Time: **3** Hours. Max. 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.

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | Explain the OSI Networking Models. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Difference between OSI and TCP/IP Model. | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Define the characteristics of Ethernet LANs. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Explain with an example:  (i) WAN (ii) IPv4 | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | You are a network administrator. How would you design a network for your company? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | What are the precautions to be taken with a switch while conferring it? | **(6)** | **Analyze** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | Build a Virtual LAN for a company. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Configure this topology. | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
|  |  |  |  |  |
| **Q.5** | **(a)** | You are a network administrator and how do you create a new topology for your network? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | You are the administrator of a company, what are the challenges of network management for you? | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | Explain with example:-  (i) - Analyzing Existing Subnets (ii) - IPv4 Addresses | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | State the difference between these two ,Subnet Mask and sub-neting | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
|  |  |  |  |  |
| **Q.7** | **(a)** | Explain for computer Network  (i) -Routing, Configure (ii) Verify Host Connectivity | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | State the difference between these two, Stop and Wait protocol. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | Explain with example:-  (i) - OSPF (multi-area) (ii) - Passive Interface | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | State the difference between these two, Passive Interface and Active Interface. | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | How to use network Packet Switching within classes A to increase the quality of your network? | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | What is Device Security in the network? | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Explain:  1. FHRP 2. SNMP | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | How we can Configure in the Network? | **(6)** | **Apply** |