**POORNIMA UNIVERSITY, JAIPUR.**

**END SEMESTER EXAMINATION, April 2023**

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|  | **1BC2102** | Roll No. | Total Printed Pages: 1 |
| **1BC2102** |  |
| BCA I Year II-Semester (Main/Back) End Semester Examination, April 2023  **(All Spl.)** | |
| **BCACCA2101 : Computer Networks** | | | |

# 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)** | Define the characteristics of the OSI model. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Explain the Types of Networks. | **(6)** | **Understand** |
|  |  | **OR** |  |  |
| **Q.2** | **(a)** | Explain the Types of Networks. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Explain with an example:  (i) HUB (ii) NIC | **(6)** | **Understand** |
|  |  | **UNIT-II (CO2)** |  |  |
| **Q.3** | **(a)** | Difference between the DHCP and DNS | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Define the characteristics of the FTP. | **(6)** | **Analyze** |
|  |  | **OR** |  |  |
| **Q.4** | **(a)** | Explain with example:  (i) –TLS (ii) -SSL | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | How we can define the SMTP | **(6)** | **Apply** |
|  |  | **UNIT-III (CO3)** |  |  |
| **Q.5** | **(a)** | Explain for computer Network  (i) – TCP (ii) - Internet Protocol | **(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) –UDP (ii) -Public IP | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Design a network for a company. | **(6)** | **Understand** |
|  |  | **UNIT-IV (CO4)** |  |  |
| **Q.7** | **(a)** | Explain for computer Network  (i) –Framing (ii) -Data Link Layer | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | State the difference between these two, Stop and Wait protocol. | **(6)** | **Remember** |
|  |  | **OR** |  |  |
| **Q.8** | **(a)** | Explain with example:-  (i) - Channel allocation problem (ii) - Multiple access protocols | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | State the difference between these two, Stop and Wait protocol. | **(6)** | **Apply** |
|  |  | **UNIT V (CO5)** |  |  |
| **Q.9** | **(a)** | What is WAN Switching? | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | What are the types of Switching? | **(6)** | **Understand** |
|  |  | **OR** |  |  |
| **Q.10** | **(a)** | How to use network Packet Switching within classes A to increase the quality of your network? | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Explain: (i) SONET/SDH (ii) Remote Access | **(6)** | **Remember** |