

## POORNIMA UNIVERSITY, JAIPUR

ND CEMESTED EVAMINATION 2022 2024 EVEN SEMESTED

END SEMESTER EXAMINATION, 2023-2024 EVEN SEMESTER

BCA (All) I () - II (Main/Back) End Semester Examination,

23BCACCA2101: Computer Networks

Time: 3 Hours Total Marks: 60 Min. Passing Marks: 21/24/27 Question Paper ID: 001088

**Instructions:** Attempt all five questions. There is an internal choice either (a or b) in Q1 to Q5. 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.

Bloom Level(BL): 1-Remembering, 2-Understanding, 3-Applying, 4-Analysing, 5-Evaluating, 6-Creating

Use of following supporting material is permitted during examination for this subject: Nil

Q1. (a) (i) Write down the difference between OSI and TCP/IP model. [6 marks]

(ii) Describe following media connectors: [6 marks]

Marks BL CO

12 1 1

(a) Fiber optics

(b) Coaxial

(OR)

**(b)** Write short notes on the following:

(i) Switch and Router [6 marks]

(ii) Firewall and Default Gateway [6 marks]

Q2. (a) Write down short notes on following protocols:

(i) DHCP [6 marks] (ii) SMTP [6 marks]

(OR)

(b) (i) Write down the difference between POP3 and IMAP. [6 marks]

(ii) Write down short notes on Telnet and FTP. [6 marks]

Q3. (a) (i) What are the functions of the Network layer in the OSI model? [6 marks]

nodel? [6 marks] Marks BL CO

(ii) Explain UDP protocol in detail. [6 marks]

(OR)

(b) (i) What do you understand by IP address? Explain the difference between Public and Private IP Address. [6 marks]

(ii) Explain data Encapsulation working in computer networks? [6 marks]

Q4. (a) Write short notes on:

Marks BL CO 12 1 4

Marks BL CO

2 2

12

Write Roll No Below:

(i) ALOHA [6 marks]

(ii) Channel Allocation Problem [6 marks]

(OR)

(b) (i) What do you understand by Wireless security protocol? Write down the difference between WEP and WAP protocols. [6 marks]

(ii) What is wireless networking? Write down the types of Wireless Networks. [6 marks]

Q5. (a) (i) Analyze the challenges associated with managing a global WAN infrastructure. [6 marks]

Marks BL CO

(ii) Compare and contrast circuit-switched and packet-switched WAN technologies. [6 marks] (OR)

12 4 5

(b) (i) Evaluate the security measures commonly employed in WAN environments. [6 marks]

(ii) Write short notes on:

[6 marks]

(a) PSTN

(b) ISDN

\*\*\*End of Question Paper\*\*\*

Page 1 of 1