

FD-2865

BCA (Part-II) Examination, 2022

Paper - IV

Computer Networks

Time: Three Hours] [Maximum Marks: 80 [Minimum Pass Marks: 27]

Note: Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

- **1.** (a) Write advantages and disadvantages of Star and Bus topology.
 - (b) Differentiate LAN and WAN with examples.
 - (c) Describe different types of transmission modes with example.

Unit-II

- **2.** (a) Explain serial transmission and parallel transmission with suitable example.
 - (b) What is Modem? Explain modem standards.
 - (c) Explain DTE-DCE with examples.

Unit-III

- **3.** (a) Explain physical layer and data link layer with their function.
 - (b) Describe network layer and transport layer with their protocol.
 - (c) Explain session layer and application layer with example.

Unit-IV

- **4.** (a) Explain the working of FTP and ARP protocols.
 - (b) What are IP address classes? Explain it.
 - (c) Explain the architecture of Internet.

DRG_89_(3)

(Turn Over)

DRG 89 (3)

(Continued)

Unit-V

5. (a) Write the importance of network security.

- (b) Explain symmetric key cryptography with example.
- (c) Explain RSA algorithm with example.
