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.

Unit-V

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

   (*b*) Explain symmetric key cryptography with example.

   (*c*) Explain RSA algorithm with example.

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