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(BCA54SB)

(3501-54B)

B.C.A. DEGREE EXAMINATION,
MARCH/APRIL 2021.

Third Year – Fifth Semester

Part II

Paper V(B) — COMPUTER NETWORKS

Time : Three hours

Maximum : 75 marks

Answer any FIVE questions.

1. Define Network. Explain the OSI reference layers with neat diagram. (15)
2. (a) What is the need of framing? Explain character stuffing and bit stuffing for framing. (8)
(b) Explain the error correction and detection in data links layer. (7)
3. Explain the following (5)
 - (a) Ethernet (5)
 - (b) Token ring (5)
 - (c) Switch (5)
4. Classify the static and dynamic routing algorithms. Explain the basic concept of flooding routing algorithm. (15)
5. (a) Discuss about TCP and UDP protocol. (5)
(b) Explain about the ATM AAL layer protocol. (10)
6. Briefly explain the following protocols (5)
 - (a) IP (5)
 - (b) RARP (5)
 - (c) ICMP (5)
7. What is congestion control? Explain Quality-Of-Service (QOS) in computer Networks. (15)
8. (a) What is DNS? Explain the working of DNS. (8)
(b) Write about electronic mail in detail. (7)