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BE(E&TC) VIII (4)
Comp Comm & Nw

25/05/10
11-2

Con. 3187-10

AN–3235

(3 Hours)

[Total Marks : 100

(N. B. : Q.1 is compulsory and attempt any four questions from Q.2 to Q.7)

Computer Communication & Networks

1. (a) What is data transparency ? Explain bit stuffing and destuffing. 05
(b) What tasks are performed by the transport layer? 05
(c) Explain different network components. 05
(d) What is fixed routing? What are the advantages and disadvantages of adaptive routing? 05

2. (a) What is flow control? Explain stop and wait ARQ protocol. 10
(b) With suitable sketches explain the working of sliding window flow control mechanism. 10

3. (a) Describe station types, configuration and modes of communication (response modes) supported by HDLC protocol. 10
(b) Explain HDLC frame format. 10

4. (a) Explain the meaning of various fields in the TCP header frame format. 10
(b) Explain following medium sharing scheduling techniques:- 10
(i) Reservation
(ii) Polling
(iii)Token passing.

5. (a) Compare circuit switching, datagram packet switching and virtual packet switching techniques with the help of timing diagram. 10
(b) Explain the meaning of various fields in the IP header frame format. 10

6. (a) How does ATM differ from frame relay? What are the relative advantages and disadvantages of ATM compared to frame relay? 10
(b) What is the essential difference between Dijkstra algorithm and Bellman-Ford algorithm. Explain these algorithms in brief. 10

7. Write short note on any two of the following : - 20
(a) IEEE Project 802
(b) SONET and SDH
(c) CSMA/CA procedure.

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