R09

B.Tech III Year I Semester (R09) Supplementary Examinations November/December 2017
COMPUTER NETWORKS
(Common to CSE and IT)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1   Write short notes on the following:
(a)   Crossbar switch.
(b)   Space division switch
(c)   Time division switch.

2   What is sliding window protocol? What assumptions are made in the sliding window protocol? Give the algorithm for 1-bit sliding window protocol.

3   (a)   What is pure ALOHA and slotted ALOHA? Mention the advantages of slotted ALOHA.
    (b)   Explain about the Manchester encoding.

4   Explain multi destination routing and reverse path forwarding technique with an examples.

5   (a)   Write and explain the IPv6 header format.
    (b)   Explain routing in internet by using the BGP protocol.

6   (a)   Discuss in detail about the window management using TCP.
    (b)   Explain the silly window syndrome in detail.

7   (a)   Draw and explain the protocol stack of a WAP.
    (b)   What is meant by server replication? Explain it in detail.

8   (a)   Write short notes on the symmetric key signatures.
    (b)   Explain RSA technique to convert the plain text to cipher text by using the suitable example.

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