B.Tech III Year II Semester (R09) Supplementary Examinations December 2016

COMPUTER NETWORKS

(Common to CSS and ECC)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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1   Explain the working of the following switches:
   (a)   Knock-out switch.
   (b)   Batcher-Banyan switch.

2   (a)   Compare and contrast SLIP and PPP.
    (b)   Draw and explain HDLC frame format.

3   (a)   Differentiate between bus and token ring.
    (b)   Differentiate between pure ALOHA and Slotted ALOHA.

4   What is count-to-infinity problem? Discuss how it can be overcome.

5   (a)   What is tunneling? When it is used? Is it used in wireless Lan's?
    (b)   Define tunneling. Explain its role in internetworking of the devices.

6   (a)   Draw the state diagram for a simple connection management scheme. Explain it.
    (b)   What is forbidden region. Explain it in detail.

7   (a)   Give brief description about the digital audio.
    (b)   Write a detailed note on audio compression.

8   (a)   With the help of a neat sketch, explain the encryption model.
    (b)   Give brief description about the substitution ciphers.

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