

B.Tech III Year II Semester (R07) Supplementary Examinations May/June 2016

**COMPUTER NETWORKS**

(Common to CSE, IT, CSS and ECC)

(For 2008 Regular admitted batch only)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) Explain in detail ISO-OSI reference model.  
(b) Write short notes on interfaces, services and protocol.
- 2 (a) Give a brief note on Cross bar switches.  
(b) Explain different broadband ISDN protocols.
- 3 (a) Briefly, explain about the Data Link Layer design issues.  
(b) Discuss about the simple protocol for a noisy channel.
- 4 (a) Sketch the differential Manchester encoding for the bit stream 0001110101.  
(b) Explain about the Manchester encoding.
- 5 (a) Define sink tree. Explain the importance of it in the routing of packets.  
(b) What is the goal of routing algorithm? Explain session routing.
- 6 (a) Explain the role of MobileIP in network layer.  
(b) Give brief description about the IPv6 Header.
- 7 (a) What is the goal of transport protocol? Explain them.  
(b) Draw the state diagram for simple connection management.
- 8 (a) Explain the principles of public key cryptography algorithms.  
(b) With the help of suitable example, explain RSA algorithm.

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