

Code: 9A05506

R09

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2016

COMPUTER NETWORKS

(Common to ECE & EIE)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Discuss ISO/OSI reference model in detail.
(b) Briefly explain the components of a fiber optic cable with a neat sketch.
- 2 (a) Given data frame 1101011101 and generator polynomial is 110. Derive the transmitted frame.
(b) How to generate the hamming code to correct the burst error for any ASCII code using check bits.
- 3 (a) Briefly explain how the data link layer switching is done.
(b) With a neat sketch, explain the operation of simple two port bridge.
- 4 (a) Explain distance vector routing algorithm with example.
(b) Compare adaptive and non-adaptive routing algorithms.
- 5 (a) Explain the role of NAT in the IP Addressing.
(b) Describe in detail about the Internet Control message Protocol.
- 6 (a) Draw and explain the position of RTP in the protocol stack.
(b) Give brief description about the UDP protocol.
- 7 (a) What is MOSPF? Explain its role in multicast back bone.
(b) Explain some of the applications of multimedia.
- 8 (a) Give brief description about the Advanced Encryption Standard.
(b) How can we convert the message to cipher by using the counter encryption mode?
