

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2016

COMPUTER NETWORKS

(Common to CSS and ECC)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Why network software is designed based on layer model? Discuss the advantages and disadvantages of layered model.
(b) Briefly explain how data transmission is done using coaxial cable.
- 2 Write short notes on:
(a) Error control
(b) Flow control
- 3 (a) What are the schemes used for channel allocation problem? Explain.
(b) Explain the operation of Manchester encoding with example.
- 4 (a) Explain distance vector routing algorithm with example.
(b) Compare adaptive and non-adaptive routing algorithms.
- 5 (a) Write and explain the IPv6 Header format.
(b) Explain the routing in internet by using the BGP Protocol.
- 6 Draw the frame format for TCP Header. Explain the various fields present in detail.
- 7 (a) Explain the different methods used in Hyper Text Transfer Protocol.
(b) Write short notes on second generation wireless web.
- 8 (a) Explain the use of SHA – 1 and RSA for signing non secret messages.
(b) Discuss in detail about the MD5 algorithm
