

Code: 06MC302

MCA III Semester Supplementary Examinations September/October 2014

COMPUTER COMMUNICATIONS

(For students admitted in 2008 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Write short notes on interface, services and protocols.
(b) Discuss briefly about OSI reference model.
- 2 (a) Discuss briefly about design issues in data link layer.
(b) Explain about transmission media for physical layer.
- 3 (a) Explain one-bit sliding protocol. Given the advantage and disadvantage of one-bit sliding window protocol.
(b) With an example explain the CRC method of error detection and error correction.
- 4 (a) What is meant by congestion? Explain congestion control algorithms.
(b) Explain routing for mobile host.
- 5 (a) Discuss briefly about elements of transport protocol.
(b) Describe TCP connection management.
- 6 (a) What is the functionality that is supported by any e-mail system?
(b) Discuss briefly about DNS.
- 7 (a) Discuss briefly about DES.
(b) Write about any one public-key algorithm.
- 8 (a) What is authentication? Describe an authentication protocol.
(b) Write a short note on web security.
