

Code: 06MC302

MCA - III Semester Supplementary Examinations, January 2013

COMPUTER COMMUNICATIONS

(For students admitted in 2007 & 2008 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Write a short notes on OSI reference model.
(b) Describe data link layer switching techniques.
- 2 (a) Differentiate between optical fibre and coaxial cable.
(b) Discuss briefly about time division switches.
- 3 (a) What is the remainder obtained by dividing $x^7 + x^5 + 1$ by the generator polynomial $x^3 + 1$?
(b) Explain briefly about HDLC protocol.
- 4 (a) Explain the hierarchical routing and show how table space required is less.
(b) Explain in detail general principles of congestion.
- 5 (a) What are the transport primitives? Explain.
(b) Explain how TCP controls congestion.
- 6 (a) Write a short note on world wide web.
(b) Discuss briefly about video on demand protocol.
- 7 (a) Write RSA algorithm. Explain.
(b) Write about any one symmetric-key algorithm.
- 8 (a) Explain briefly about authentication using Kerberos.
(b) Discuss briefly about the social issues occurred in communication security.
