

Code: 9F00302

MCA - III Semester Regular & Supplementary Examinations, January 2013

**COMPUTER NETWORKS**

(For students admitted in 2009, 2010 & 2011 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Compare the OSI reference model with TCP/IP reference model.  
(b) Give brief description about the coaxial cables and also mention their disadvantages.
- 2 (a) Explain the selective repeat protocol with a suitable example.  
(b) Discuss with a suitable example, the hamming code in detail.
- 3 (a) Discuss in detail about the time division multiplexing.  
(b) Explain the collision free protocols in detail.
- 4 (a) Explain the shortest path routing algorithm with a suitable example.  
(b) What is load shedding? Explain it using an example.
- 5 (a) Define tunneling. Explain its role in internetworking of the devices.  
(b) Discuss in detail about the routing in the internetworking.
- 6 (a) Write a detailed note on transport service primitives.  
(b) Give brief description about the flow control and buffering.
- 7 (a) Discuss in detail about the filter based fire walls.  
(b) Explain the DES algorithm with suitable example.
- 8 Give brief description on the following:
  - (a) Client side web documents.
  - (b) MIME.

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