

C 18259



SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2011

CS/IT 04 603—COMPUTER NETWORKS
(2004 admissions)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

- I. (a) Explain the working of the Medium Access Control.
- (b) How is message switching done ? Give an example.
- (c) Mention the frame relay layers and its operation.
- (d) State the ISDN services.
- (e) Differentiate Router and a Gateway.
- (f) Explain the working of the distant vector algorithm.
- (g) Describe the functionalities of the Network layer.
- (h) How does a World Wide Web work ? Explain.

(8 × 5 = 40 marks)

Part B

- II. (a) Explain in detail about the FDDI and the Wireless LANs.
- (b) Discuss in detail about the circuit switching and the packet switching techniques.
- III. (a) With a neat sketch, explain the ISDN layers and its working.
- (b) Explain the SONET/SDH architecture and its layers in detail.
- IV. (a) Explain in detail about the Presentation layer.
- (b) Write in detail about the Application layer.
- V. (a) Explain in detail about ARP and the ICMP with relevant examples.
- (b) Explain the working of the FTP and the HTTP in detail.

(4 × 15 = 60 marks)