B.TECH. DEGREE EXAMINATION, MAY 2014

Sixth Semester

Branch : Computer Science and Engineering

CS 010 604—COMPUTER NETWORKS (CS)

(New Scheme—2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time : Three Hours   Maximum : 100 Marks

Part A

Answer all questions.
Each question carries 3 marks.

1. Explain the terms (a) Bandwidth ; and (b) Latency.

2. What is Wi-Fi ?

3. Explain bridges.

4. What is TCP ?

5. Explain WWW.

                                                        (5 × 3 = 15 marks)

Part B

Answer all questions.
Each question carries 5 marks.

6. Explain the significance of Delay-Bandwidth product.

7. Explain the physical properties of IEEE 802.3.

8. Compare Pocket switching and circuit switching techniques.

9. Explain the frame format of TCP heeder.

10. Write a note on Generic Application Protocol.

                                                        (5 × 5 = 25 marks)

Part C

Answer all questions.
Each full question carries 12 marks.

11. Explain OSI architecture in detail.

                                Or

12. Explain Internet architecture in detail.

                                                        Turn over

13. Explain :

   (a) Wimax.

   (b) Bluetooth.

Or

14. Explain, in detail about the different framing techniques.

15. (a) Explain Spanning Tree Algorithm.

   (b) Discuss the limitations of Bridges.

Or

16. Compare Distance vector routing and Link state routing with respect to a subnet.

17. (a) Explain RPC.

   (b) Discuss the issues of TCP.

Or

18. Explain the different TCP congestion control algorithms.

19. Explain about :

   (a) DNS.

   (b) FTP.

Or

20. Explain the working of Email and explain the Application Layer Protocols that support the reliable transfer of email to correct destination.

(5 × 12 = 60 marks)