BSIM43 — COMPUTER NETWORKS

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define computer network.

2. What is called switching?

3. List any two services of DLL.

4. Expand the term HDLC.

5. Define routing.

6. What is congestion control?

7. What is known as buffering?

8. Write the acronym for UDP.

9. State the purpose of usenet.

10. Expand the term WWW.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain any two network hardware components.

Or

(b) Write short notes on wireless transmission.

12. (a) Discuss any two error detection codes.

Or

(b) Elucidate the algorithm for stop and wait protocol.

13. (a) List down the services of network layer.

Or

(b) Describe the significance of using IP protocol.

14. (a) What is known as addressing in transport layer? Explain it.

Or

(b) Write short notes on connection management.

15. (a) Discuss about DNS in detail.

Or

(b) Explain the process of locating information on the web.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Draw and explain the layers of OSI reference model.

17. Discuss in detail about flow and error control.

18. Explain the shortest path routing algorithm.

19. Compare and contrast TCP and UDP.

20. Describe the e-mail architecture and services.