

NOVEMBER/DECEMBER 2019

BSIM43 — COMPUTER NETWORKS

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define network.
2. Expand the term TCP/IP.
3. Define flow control.
4. Write the acronym for HDLC.
5. List any two services of network layer.
6. What is known as subnet?
7. Define multiplexing.
8. Expand the term UDP.
9. Define DNS.
10. Who is known as client?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write short notes on network software.
Or
(b) Draw and explain the OSI reference model.
12. (a) Give an account on error correction codes.
Or
(b) Elucidate the services of DLL.
13. (a) Describe the general principle of congestion control.
Or
(b) Write short notes on IP address.
14. (a) Elaborate the services of transportation layer.
Or
(b) Discuss about connection management.
15. (a) Give an account on user agent.
Or
(b) Explain the concept behind World Wide Web (WWW).

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about wireless transmission media in detail.
17. Explain the process of working stop and wait protocol.
18. Describe the shortest path routing algorithm with suitable example.
19. Compare and contrast TCP with UDP.
20. Expound the E-mail architecture and services.