CBCS SCHEME

USN | | | | | | | | | | |

15CS52

Fifth Semester B.E. Degree Examination, Feb./Mar. 2022
Computer Networks

Time: 3 hrs. Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 a. Discuss the two application architectures. **(08 Marks)**

b. Distinguish between non-persistent HTTP and persistent HTTP. **(08 Marks)**

OR

2 a. Discuss the File Transfer Protocol (FTP). **(08 Marks)**

b. Explain DNS name resolution, with an example. **(08 Marks)**

Module-2

3 a. Explain the reliable data transfer 2.0 (rdt 2.0). **(08 Marks)**

b. Explain Go-Back N protocol. **(08 Marks)**

OR

4 a. Explain the flow control mechanism in TCP. **(08 Marks)**

b. Explain the TCP Tahoe Congestion Control mechanism. **(08 Marks)**

Module-3

5 a. Explain the architecture of router. **(08 Marks)**

b. Apply the link state routing protocol algorithm to find shortest path from source node A to all other nodes on the following Fig.Q.5(b). **(08 Marks)**

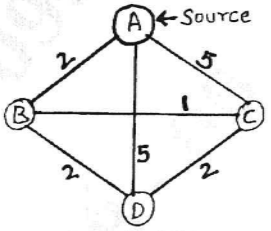

Fig.Q.5(b)

OR

6 a. Discuss hierarchical routing protocol. **(08 Marks)**

b. Apply the distance vector routing protocol algorithm to find the shortest path from source node A to all other nodes on the following Fig.Q.6(b). **(08 Marks)**

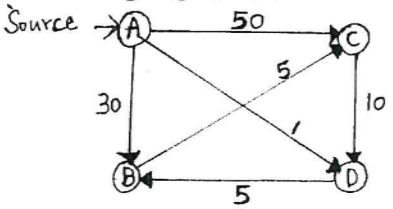

Fig.Q.6(b)

Module-4

7 a. Explain 3G (voice and data) cellular network architecture. **(08 Marks)**

b. Explain the vocabulary of Mobile-IP networks. **(08 Marks)**

OR

8 a. Discuss any one routing algorithm in Mobile-IP networks. **(08 Marks)**

b. Discuss the handoff procedure in GSM networks. **(08 Marks)**

Module-5

9 a. Discuss the three types of multimedia networking applications. **(08 Marks)**

b. Explain the challenges in streaming stored video data. **(08 Marks)**

OR

10 a. Illustrate the content delivery in Netflix. **(08 Marks)**

b. Explain the differentiated service architecture for QoS. **(08 Marks)**

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