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Sixth Semester B.E. Degree Examination, Feb./Mar. 2022
Computer Networks – II

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Compare the two types of network services. (06 Marks)
b. What is domain? Explain intradomain and interdomain levels with neat diagram. (06 Marks)
c. Explain Bellman-Ford Algorithm with example. (08 Marks)
- 2 a. Briefly, explain Dijkstra's Algorithm. (06 Marks)
b. What is fair queuing? Explain. (06 Marks)
c. Describe the any two mechanisms of open-loop control traffic management. (08 Marks)
- 3 a. Give the header format of IPv4 and explain the fields involved in it. (06 Marks)
b. What is IP addressing? Explain the classes of IP addressing. (06 Marks)
c. Explain TCP/IP protocol suite. (08 Marks)
- 4 a. Give the format of TCP segment. (06 Marks)
b. What is IGMP? Explain the IGMP message format. (06 Marks)
c. Explain the features and operations of OSPF protocol. (08 Marks)

PART – B

- 5 a. Explain the Domain Name systems with neat diagrams. (10 Marks)
b. Explain the RSA algorithm and Diffie-Hellman key exchange protocol. (10 Marks)
- 6 a. Differentiate between Leaky-Bucket and Token Bucket approaches. (06 Marks)
b. Explain differential services of QoS. (06 Marks)
c. What are VPNs? Explain types of VPNs. (08 Marks)
- 7 a. Explain the types of compression methods with loss. (10 Marks)
b. What is SIP? Explain the components and signaling of SIP. (10 Marks)
- 8 a. What are the applications of Ad-hoc networks? (06 Marks)
b. Describe the types of attacks in Ad-hoc networks. (06 Marks)
c. Explain DEEP cluster protocol algorithm in wireless sensor networks. (08 Marks)

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