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K – 5572

Reg. No.

Name :

Eighth Semester B.Tech. Degree Examination, February 2021

13.803 : COMPUTER COMMUNICATIONS (T)

(2013 Scheme)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer all questions :

1. What is the importance of the transmission media in the OSI model?
2. Describe the goals of multiplexing.
3. What is the importance of cladding in fiber optic cable?
4. How does Address Resolution Protocol (ARP) works?
5. What is sub-netting?
6. Mention the functions of router, bridge and switch.
7. How does Spanning Tree Protocol work?
8. What do you mean by Wireless LANs?
9. What is Multi-Level Security (MLS) model?
10. Write short note on Message Integrity Protocol.

(10 × 2 = 20 Marks)

P.T.O.



PART – B

Answer **any one** question from each Module, 20 Marks each.

Module – I

11. (a) Differentiate between TCP and UDP. 8
(b) Explain different layers of TCP/IP reference model and its protocols. 12

OR

12. (a) What are sliding window protocols? Explain Go-Back-N protocol. 10
(b) What is congestion control? Briefly explain any two congestion control mechanisms? 10

Module – II

13. (a) Are ICMP messages delivered reliably? If so, briefly explain the mechanism. If not, give a reason why not? 5
(b) What are the salient features of Ipv6? 8
(c) Briefly explain the error reporting mechanism by routers to report delivery or routing problems to original mechanism. 7

OR

14. (a) Explain Link State Routing algorithm with an example. 10
(b) Explain briefly forwarding techniques. Explain three different forwarding techniques. 10

Module – III

15. (a) Describe two ways to address the framing problems in Data Link Layer. 10
(b) Explain the error detection and correction techniques in Data Link Layer. 10

OR

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16. (a) What is Spanning Tree? Explain with an example. 10
(b) With flow diagram, explain the procedure for CSMA/CD protocol. 6
(c) Differentiate between MAC address and IP address. 4

Module — IV

17. (a) What is the need for security services at transport layer of Internet Protocol? 8
(b) Explain the four protocols defined by Secure Socket Layer. 12

OR

18. (a) Explain in detail about Intrusion Detection Systems . 10
(b) How does a firewall work? Also explain different types of fire walls. 10

