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D – 3524

Reg. No. :

Name :

Eighth Semester B.Tech. Degree Examination, December 2017

(2008 Scheme)

08.803 : COMPUTER COMMUNICATION (T)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. What are the advantages of layering the OSI model ?
2. Explain how reliable transmission is achieved using sliding window protocol.
3. Give an example for a layer 3 interconnecting device and explain.
4. What is sub netting ? List any two advantages of sub netting.
5. Differentiate between IP address and MAC address.
6. Briefly explain ICMP protocol.
7. Compare IP V4 and IP V6.
8. Write short note on application layer security.
9. Briefly explain Virtual Private Network.
10. What is a firewall ?

(10×4=40 Marks)

PART – B

Answer **any two** questions from **each** Module.

Module – 1

11. Explain how the TCP/IP stack conforms to the OSI layer.
12. Differentiate between circuit switching and packet switching.
13. i) Explain the Ethernet frame in detail.
ii) Explain the MAC mechanism in Ethernet.

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Module – 2

14. Explain in detail an interior link state routing protocol.
15. Briefly explain how flow control is done in TCP.
16. Discuss about ARP and RARP in detail.

Module – 3

17. Explain the four step process of computing message digest in MD5.
18. Explain the different access control methods.
19. What is ESP in IP security ? Draw and explain IP security's ESP format.

(6×10=60 Marks)
