Reg. No. :

Question Paper Code: 92042

M.E. DEGREE EXAMINATION, APRIL 2015.

Elective

Computer Science and Engineering (With Specialization in Networks)

01PNE515 – ENTERPRISE NETWORKS

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1.   Define enterprise network.

2.   What are the limitations of OSI model?

3.   What is Peer-to-Peer networking?

4.   Differentiate between physical and logical topologies.

5.   What is the need for network operating system?

6.   State some salient features of netware.

7.   Define CIDR.

8.   What is default gate way?

9.   Differentiate between private and public IP address.

10. State the different issues related to enterprise network security.

PART - B (5 x 14 = 70 Marks)

11. (a) (i) What is meant by computer network protocol? Describe in detail about UDP and ICMP. (7)

    (ii) Explain in detail how networks are constructed from two classes of hardware building blocks. (7)

Or

(b) Compare TCP/IP and OSL reference models. (14)

12. (a) Define network basics? Explain in detail load balancing WAN. (14)

Or

(b) Explain the need and usage of network switching in detail. (14)

13. (a) With suitable example explain how enterprise networking can be done using windows 2000. (14)

Or

(b) Elaborate on netware based enterprise networking. (14)

14. (a) What is the default IP address of a Linksys router. Explain in detail. (14)

Or

(b) Describe in detail about TCP/IP network performance with benchmarks and tools. (14)

15. (a) Discuss in detail about home, wireless and internet networks security. (14)

Or

(b) What is meant by trouble shooting and explain the trouble shooting system instability, reboots and crashes. (14)

PART - C (1 x 10 = 10 Marks)

16. (a) Briefly explain Virtual Private Networks (VPN) with suitable example. (10)

Or

(b) What is meant by LAN? Explain in detail the LAN network administrator role. (10)

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