C 80825 (Pages : 2) Name.....

Reg. No.....

SIXTH SEMESTER B.TECH. (ENGINEERING) (09 SCHEME) DEGREE EXAMINATION, APRIL 2015

IT/CS/PTCS 09 603—COMPUTER NETWORKS

Time : Three Hours Maximum : 70 Marks

Part A

Answer **all** *questions.*

1. What is multiplexing ?
2. What do you mean by routing ?
3. Bring out the use of subnetting.
4. What is the use of DVMRP protocol ?
5. Enumerate the duties of transport layer.

(5 × 2 = 10 marks)

Part B

Answer any **four** *questions.*

6. Write short notes on resilient packet ring.
7. Explain the mechanism of routing for mobile hosts.
8. Explain in detail about reliable flooding mechanism.
9. Discuss about CIDR technique and its benefits.
10. Explain the situation where a virtual private network is created. How does a virtual private network work.
11. Explain in detail about the process of triggering transmission.

(4 × 5 = 20 marks)

Part C

Answer **all** *questions.*

12. (a) Discuss in detail about the physical properties and access protocols of 802.3 Ethernet.

Or

(b) Explain in detail about the working mechanism of circuit switching technology.

13. (a) Discuss in detail about the working of bridges and routers.

Or

(b) Explain in detail about distance vector and link state routing mechanisms.

Turn over

14. (a) Explain in detail about IP version 4 and IP version 6.

Or

(b) Discuss in detail about explicit routing technique.

15. (a) Explain in detail about the end-to-end issues and connection establishment and termination issues in reliable byte stream TCP protocol.

Or

(b) Explain in detail bulk transfer and request/reply mechanisms of remote procedure calls.

(4 × 10 = 40 marks)