C09-IT-606C

3780

BOARD DIPLOMA EXAMINATION, (C–09)
APRIL/MAY—2015
DIT—SIXTH SEMESTER EXAMINATION

INTERNETWORKING WITH TCP/IP

Time : 3 hours]   [*Total Marks* : 80

PART—A   3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Briefly explain about Internet Architecture Board.

2. Explain about ARP.

3. Briefly explain about ARP refinement.

4. Define the virtual network.

5. Define the purpose of Internet Protocol.

6. Write about the concept of unreliable delivery.

7. Briefly explain about table driven IP routing.

8. Define default router.

9. Give the Echo request and reply message format.

10. Write any three differences between error reporting and error correction.

PART—B   10×5=50

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain about application level Internet services and network level Internet services.

12. *(a)* Explain about ARP encapsulation and identification.   5

    (b) Explain about ARP protocol format.   5

13. *(a)* Explain about circuit-switched and packet-switched networks.   6

    (b) Explain the concept of connectionless delivery system.   4

14. Explain about Internet datagram.

15. Explain about Internet datagram options.

16. *(a)* Explain the concept of next hop routing.   5

    (b) Explain about direct and indirect delivery.   5

17. *(a)* Explain about routing with IP addresses.   5

    (b) Explain IP routing algorithm.   5

18. *(a)* Explain ICMP message format.   4

    (b) Explain about ICMP and ICMP message delivery.   6

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