C14–IT–505

4647

BOARD DIPLOMA EXAMINATION, (C–14)
OCT/NOV—2017
DIT—FIFTH 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. Write a brief note on history of Internet.

2. Write a short note on ARP refinement.

3. Write a short note on backup RARP server.

4. Write about virtual network.

5. Write a short note on the concept of unreliable delivery.

6. Write a short note on time to live field.

7. Write about table driven IP routing.

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8. Write about default router.

9. Discuss about ICMP.

10. Write a short note on error correction.

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PART—B 10×5=50

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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 Internet architecture with interconnection through routers.

12. Explain briefly about address resolution problem.

13. Explain briefly about the following : 5+5

(a) Datagram format

(b) Datagram encapsulation

14. Explain datagram size and fragmentation.

15. Write about the following Internet datagram : 5+5

(a) Source route option

(b) Time stamp option

16. Explain IP routing algorithm.

17. Explain routing with IP address.

* **18.** Explain about error reporting.

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