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C09-IT-606C

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BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2016

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. Write any three reasons for internetworking.

2. Write a note on ARP refinement.

3. Write a short note on RARP.

4. What is virtual network?

5. Write a short note on reassembly of fragment.

6. Write about the concept of unreliable delivery.

7. What is default router?

- * 8. List any three advantages of next hop routing.
9. Write a short note on ICMP.
10. Write a short note on echo reply message format.

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 internet architecture with interconnection through routers.
12. Explain the ARP protocol format.
13. Explain about circuit switched and packet switched networks.
14. Explain about any two other datagram fields.
15. Write about the following internet datagram options : 5+5
- (a) Source route option
- (b) Time stamp option
16. Explain IP routing algorithm.
17. Explain the following : 5+5
- (a) Routing with IP addresses
- (b) Handling of incoming datagram
- * 18. Explain about the error reporting and error correction.
