



C09-IT-606 C

**3780**

**BOARD DIPLOMA EXAMINATION, (C-09)  
MARCH/APRIL—2013  
DIT—SIXTH SEMESTER EXAMINATION**

INTERNETWORKING WITH TCP/IP

Time : 3 hours ]

[ Total Marks : 80

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**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. Discuss briefly Reverse Address Resolution Protocol (RARP).
3. Briefly discuss about ARP identification.
4. Write about the concept of unreliable delivery.
5. Briefly explain about internet architecture and virtual network.
6. Write a short note on reassembly of fragment.
7. Write a short note on host specific router.

8. Give a brief note on routing in an internet.
9. Write a short note on echo reply message format.
10. Write a short note on testing destination reachability and status.

**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 the following internetworking concepts : 5+5=10
  - (a) Application-level interconnection
  - (b) Network-level interconnection
12. Explain briefly about resolution dynamic binding.
13. Explain about the following terms : 5+5=10
  - (a) Datagram size and fragmentation
  - (b) Fragment control field
14. Write about the following internet datagram options : 5+5=10
  - (a) Record route option
  - (b) Source route option
15. Explain briefly about the following : 5+5=10
  - (a) Circuit switched and packet switched networks
  - (b) Purpose of internet protocol

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- 16.** Explain direct and indirect delivery. 5+5=10
- 17.** Explain the following : 5+5=10
- (a) Routing with IP addresses
  - (b) Handling of incoming datagram
- 18.** Explain about the error reporting and error correction. 5+5=10

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