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5611

Reg. No. :

Name :

Seventh Semester B.Tech. Degree Examination, October 2014
(2008 Scheme)
08.702 : INTERNET WORKING (F)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

(4×10=40 Marks)

1. What is the minimum size of an ethernet frame that carries an IP packet which in turn carries an ICMP packet ? What is its maximum size ?
2. What are the disadvantages associated with protocol layering ?
3. Explain Karn's algorithm. How does it perform in a network with high packet loss ?
4. Why an external gateway protocol is said to be a reachability protocol rather than a routing protocol ?
5. What are the techniques used to avoid slow convergence problem ?
6. Explain multicast forwarding tree.
7. Explain DHCP message format.
8. List the features of FTP.
9. What is the chief advantage of using separate TCP connection for control and data ?
10. Explain traffic scheduling.

P.T.O.



PART – B

Answer **any one** question from **each** Module. **Each** question carries **20** marks.

Module – I

11. a) An IP datagram has arrived with the following information in its header (in hexadecimal)
 45 00 00 54 00 03 00 00 20 06 00 00 7C 4E 03 02 B4 OE OF 02
- Is the packet fragmented ?
 - What is the size of the data ?
 - How many more routers can the packet travel to ?
 - What is the identification number of the packet ?
 - Are there any options ? 10
- b) Explain the working of ARP. Give ARP packet format. Why is ARP cited as a security weakness ? 10
12. a) Explain sliding window protocol. 8
- b) What is silly window syndrome ? What are the techniques used to avoid it ? 12

Module – 2

13. a) Explain BGP. 12
- b) What are the advantages and disadvantages associated with core routing architecture ? 8
14. a) Give the general characteristics of IP multicasting. 8
- b) Explain the states of a DHCP client. 12

Module – 3

15. a) Explain DNS message format. 12
- b) Distinguish between FTP and TFTP. 8
16. Write short note on :
- HTTP
 - Quality of Service (QoS)
 - IMAP
 - RSVP.
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