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BCACAC 262

**Credit Based IV Semester B.C.A. Degree Examination, April/May 2015
(New Syllabus) (2013-2014 Batch Onwards)**

PRINCIPLES OF TCP/IP

Time : 3 Hours

Max. Marks : 80

Note : Answer any ten questions from Part – A and one full question from each Unit of Part – B.

PART – A

1. a) Expand IRTF and CSNET. (10x2=20)
b) What is loopback address ? Why is it used ?
c) Define internet protocol.
d) What is indirect delivery of datagram ?
e) Name the contents of routing table.
f) What is subnet mask ?
g) Expand IMAP and MIME.
h) What is internet domain name system ?
i) What is the purpose of Telnet ?
j) What are name servers ?
k) Give the general structure of IPv6 datagram.
l) What is the purpose of POP ?

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PART – B

Unit – I

2. a) What is IAB ? Explain the organization of IAB.
b) Explain three primary classes of IP addresses.
c) Explain the TCP/IP reference model. (4+6+5)

P.T.O.



3. a) Write a note on evolutionary history of internet services.
b) What is reverse address resolution protocol ? Explain.
c) Write a short note on : (i) Dotted decimal notation (ii) Direct broadcast address. (5+4+6)

Unit – II

4. a) What is RIP ? Explain the working of RIP.
b) Explain IP routing algorithm.
c) What is BGP ? Explain any four characteristics of BGP. (5+5+5)
5. a) What is next-hop routing ? Explain with example.
b) What is subnet addressing ? Explain.
c) Write a short note on : (i) HELLO protocol (ii) Open SPF protocol. (5+4+6)

Unit – III

6. a) Explain the format of UDP datagram.
b) What is Karn's algorithm. Explain.
c) Briefly explain the steps involved in Domain name resolution. (5+4+6)
7. a) What is sliding window technique ? Explain its advantages.
b) Explain different fields of Domain server message format.
c) Write a note on send-side silly window avoidance. (6+6+3)

Unit – IV

8. a) What is FTP ? Explain FTP process model with diagram.
b) List and explain any five features of IPv6.
c) Write a note on SMTP. (6+5+4)
9. a) Give the format of IPv6 base header. Explain its fields.
b) What is NFS ? Explain NFS implementation with diagram.
c) Write a note on TFTP. (6+5+4)
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