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6, a) Explain sliding window in

BCACAC 262

Credit Based Fourth Semester B.C.A. Degree Examination, April/May 2018 (Common to all Batches) 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) Name any two organizations related to evolution of open networks. (10×2=20)
 - b) What is RARP and when is it used?
 - c) What is default router?
 - d) What is loop back address?
 - e) What is Border Gateway Protocol?
 - f) List any two functions of IP.
 - g) Give the structure of IP datagram.
 - h) Compare telnet and rlogin protocols.
 - i) Differentiate FTP and TFTP.
 - j) What do you mean by IP multicasting?
 - k) Give the format of IPV6 datagram.
 - I) What is the purpose of MIME protocol?

PART - B

Unit -

- 2. a) Write a note on evolution of open networks.
 - b) Explain various classes of IP addressing scheme. IMM no eron s elim (
 - c) Explain address resolution through dynamic binding with the help of a diagram. (5+5+5)

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3. a) Explain application level and network level interconnection schemes. b) Write a note on IAB and its reorganization. c) Explain Directed and limited broadcast. (5+5+5)Unit - II 4. a) Give the IP-routing algorithm. b) Explain routing information protocol operation. c) Explain implementation of subnet with subnet mask. (5+5+5)5. a) Explain characteristics of OSPF protocol. b) Explain any five characteristics of BGP. c) Explain classless inter domain routing concept and its uses. (5+5+5) Unit - III 6. a) Explain sliding window technique with a diagram. b) Give the UDP message format and explain various fields. c) Explain how TCP establishes connection using 3 way hand shake. 7. a) Explain how domain name resolution is done. b) Explain the Telnet protocol with the help of a diagram. c) Explain TCP acknowledgement retransmission and timeout. Unit - IV 8. a) Explain FTP process model with diagram. b) Explain the working of SMTP. c) Explain changes introduced in IPV6 compare to IPV4. (5+5+5)9. a) Write a note on Network File System. b) Give the format of IPV6 base header and explain its fields.

c) Write a note on MIME. The state of the assession auditory dislocation (5+5+5)