S.E. IT/ semII/ mapag(Reu)/ Nedworking Techanology For Digital Devices (REVISED COURSE) Con. 3508-09. [Total Marks: 100 (3 Hours) N.B.: (1) Question No. 1 is compulsory. (2) Attempt any four out of the remaining questions. 1. (a) Compare centralized and Distributed operating systems. 5 (b) What is sliding window protocal? Where is it applicable? (c) What are recent developments in networks? List at least two with an application area for it. Explain general principals of congestion control. 5 Explain OSI model and compare it with TCP/IP reference model. 10 2. (a) Compare circuit switching and packet switching. 5 (b) What are different classes of IP addresses? Give the format of each class. With an example explain different methods of frame forming. 10 3. (a) (b) Explain CSMA/CD 10 4. (a) What are different types of routing? With an example explain Dijkstra's routing 12 algorithm. (b) For the address 132·7·21·84 find the type of network and network address. 4

(c) A router inside an organisation receives the same packet with a destination address

5. (a) What is distributed computing? What are the advantages and disadvantages of 5

What are the advantages of fiber optics as communication medium?

7. (a) What is interprocess communication? Explain its role in network based

What is a hub? Explain different types of hubs. How is a hub different from switch?

(b) Explain TCP connection management and TCP transmission policy.

are 0s). Find subnet address.

distributed computing?
(b) Explain Remote procedure call.

6. Write short notes on :-

(d) ARP, RARP

communication system.

(a) SNMP(b) ALOHA(c) OSPF

190-240-34-95. If the subnet mask is 19 (First 19 bits are1s and following bits

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