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(08 Marks)

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- 6 a. Explain different types of packet scheduling algorithm with neat diagrams. (08 Marks)
 - b. Write the Dijkstra's algorithm and apply it to the following graph (Refer Fig.Q.6(b)) with source node 'u' to find shortest path to all other nodes.



c. Describe two major differences between the ECN and RED method of congestion avoidance. (04 Marks)

Module-4

- 7 a. List and explain the primitives for a simple transport service. (06 Marks)
 - b. Explain connection establishment between server and the client using TCP. (08 Marks)
 - c. With general format, explain the various fields of UDP and explain how checksum is calculated. (06 Marks)

OR

8	a.	With a neat diagram, explain each field of TCP header.	(08 Marks)
	b.	Write a note on Max-Min fairness.	(06 Marks)
	c.	Explain the steps in making a remote procedure call with a neat diagram.	(06 Marks)

Module-5

- 9 a. What are the 2 different architectures used in modern network application? Explain each architecture with neat diagram. (08 Marks)
 - b. Explain the HTTP request message format in detail.
 - c. Explain the use of cookie in web application.

OR

- 10 a. Illustrate the socket communication between two processes that communicate over the internet with a suitable diagram. (04 Marks)
 - b. With a neat diagram, explain how SMTP can be used for transmitting mails from sender to receiver. (08 Marks)
 - c. Explain the various services provided by DNS and problems associated with centralized design. (08 Marks)

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