

Veermata Jijabai Technological Institute

ESE B. Tech Third Year (Semester V)

181090071

04/12/2020

This is the subjective part of your examination. Write the answers on a paper, then scan and upload it in the appropriate classroom.
All questions are compulsory.

R4ET3005T - Computer Communication Networks

Section 1: 4 marks per question

8

1. Briefly discuss the medium access used in 802.3 Use a sketch and associated text to describe how a set of DTEs is interconnected to form a Ethernet LAN using the transmission media Thin coaxial cable.
2. What are the types of packet switching? Name them and Compare them.

Section 2: 4 marks per question

8

1. Explain fragmentation with reference to IPV4.
2. State the difference between TCP and UDP. When is UDP used?

Section 3: 4 marks per question

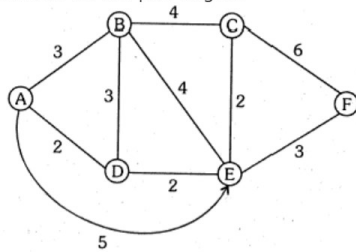
8

1. Name the domains of DNS in internet and write in brief about them.
2. Why host configuration is needed? Write in brief about DHCP

Section 4: 8 marks per question

8

1. For the network shown below
 - A. Find the shortest path to node A from all other nodes using Bellman Ford algorithm .
 - B. Draw the path diagram.
 - C. How routing change when link between A and D is broken.
 - D. Draw the new path diagram



Section 5: 8 marks per question

8

1. An organization is granted the block 198.35.11.0/24 The administrator wants to create at least 30 subnets.
 - i) Find the subnet mask.
 - ii) Find the number of hosts in each subnet.
 - iii) How many subnets are created?
 - iv) Find the first and last address in the first subnet.
 - v) Find the first and last address in the last subnet.
 - vi) To create 64 subnets what will be the prefix length.

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