6. Explain Linux Operating System. What is the difference between Unix and Linux? Which one is best and why? What are the basic components of Linux? What are the kinds of permissions under Linux? How do you change permissions and access partitions under Linux?

15

Unit IV

- 7. Describe the various routing algorithms of MANET. What are the security threats to a MANET? Why does a MANET face greater security theats than a fixed infrastructure network? Why is routing in multihop ad-hoc network complicated, what are the special challenges?
- 8. Write technical note on any *two* of the following:
 - (a) Information dissemination in VANET
 - (b) Vehicular mobility modelling for VANET
 - (c) Optimization algorithm.

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M. Tech. EXAMINATION, Dec. 2017

(Second Semester)

(B. Scheme) (Re-appear Only)
ECE/Industry Integrated

MTEC-526-B

COMMUNICATION NETWORK

Time: 3 Hours] [Maximum Marks: 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

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Unit I

1. (a) What do you mean by Network

Topology? Explain the difference
between the Topology and Star Topology.

Give their advantages and disadvantages.

 $7\frac{1}{2}$

- (b) What do you mean by DQDB? Which type of physical topology is used by DQDB? Describe frame format of DQDB?
- 2. (a) Explain the mechanism of free space propagation model. 7½
 - (b) Describe the multipath characteristics of radio wave propagation? Describe the factors which influence the small scale fading in radio wave propagation? 7½

2

Unit II

- 3. What are the different protocols used in GSM? Explain the protocol architecture in GMS. Explain, how hand-off takes place in GSM? What are the problem associated with hand-off in GSM? Explain the different types of hand-off encountered in GSM.
- 4. (a) What are the general of Mobile IP regarding security and support of QoS?
 - (b) How can DHCP be used for mobility and support of Mobile IP? 7½

Unit III

asymmetry in mobile network. Give examples of asymmetric communication architecture for data dissemination? Describe pull based data delivery mechanism. What are the advantages and disadvantages of pull based data delivery?

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