

Printed Pages – 4

Roll No. :

322849(22)

B. E. (Eighth Semester) Examination, April-May 2021

(New Scheme)

(CSE Engg. Branch)

WIRELESS NETWORKS

Time Allowed : Three hours

Maximum Marks : 80.

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each unit is compulsory. Attempt any two parts from (b), (c) and (d) of each unit.

Unit-I

1. (a) Define fading. 2
- (b) Explain in detail about any one first generation wireless communication network standard. 7

[2]

- (c) Describe the large scale path loss and shadowing in detail. 7
- (d) Explain multipath propagation in detail. 7

Unit-II

2. (a) Define Modulation. 2
- (b) Write in detail about various receiver techniques for fading dispersive channels. 7
- (c) Explain in detail about MPSK modulation. 7
- (d) Explain signal space and decision region. 7

Unit-III

3. (a) Define Frequency Reuse. 2
- (b) Explain cellular communication in detail. 7
- (c) Write short notes on : (any two) 7
- (i) Cell splitting
 - (ii) Call blocking
 - (iii) Cell sectoring

[3]

- (d) Explain co channel and adjacent channel interference in detail. 7

Unit-IV

4. (a) Define CSMA. 2
- (b) Explain in detail about location management in cellular network. 7
- (c) Discuss about various handoff strategies. 7
- (d) Write short notes on : (any two) 7
- (i) FDMA
 - (ii) Traffic calculation
 - (iii) Conflict free multiple access

Unit-V

5. (a) Define MANET. 2
- (d) Explain mobile IP in detail. 7
- (c) Explain the architecture of wireless application protocol and its layers. 7

(d) Discuss how the transmission control protocol behaves in wireless networks.