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Roll No. :

322849(22)

APR-MAY 2022

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(CSE Engg. Branch)

WIRELESS NETWORKS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) is compulsory.

Attempt any two parts of three i.e. (b), (c) and (d).

1. (a) What is Channel Model? 2

(b) Define Wireless Communication Network. Also explain the generations of wireless communication standard. 7

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- (c) Write short technical notes : 7
- (i) Multipath propagation
 - (ii) Coverage extension
- (d) What is channel correlation function? Also explain large scale path loss & shadowing. 7
2. (a) What is OFDMA? 2
- (b) What is Digital Modulation? Explain MPSK, MSK and GMSK. 7
- (c) What is Power Spectral Density? Explain probability of Transmission Error. 7
- (d) Write short technical notes : 7
- (i) Signal space
 - (ii) Decision region
3. (a) What is Sectoring? 2
- (b) Explain in detail about Cell Cluster. 7
- (c) Explain in detail about co-channel & adjacent channel interference. 7

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- (d) Write short technical notes : 7
- (i) Frequency reuse
 - (ii) Mobility management
4. (a) What is Traffic Calculation? 2
- (b) What is Mobility Management and In wireless network? Explain. 7
- (c) What is Handoff Management & also explain location management for cellular network & PCS network? 7
- (d) Write short technical notes : 7
- (i) Multiple Access Technique
 - (ii) Carrier Sense Multiple Access (CSMA)
5. (a) What are the entities of Mobile IP? 2
- (b) Differentiate an adhoc network and a cellular network with respect to : 7
- (i) Bandwidth usage
 - (ii) Cost effectiveness
- (c) Explain the Mobile IP session initiation protocol for IP Packet delivery in Mobile IP Networks. 7

(d) Explain with neat diagram and example the destination sequence distance vector routing algorithm of Adhoc Network.

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