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B.Tech. (Electrical & Electronics Engineering) (Sem.-7)

WIRELESS COMMUNICATION

Subject Code: BTEEE-804F M.Code: 71968

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a. Define coherence time and coherence bandwidth.
- b. Why GMSK is preferred for multiuser, cellular communication?
- c. Define spatial diversity.
- d. When is the PN sequence called as maximal length sequence?
- e. List the types of FH-SS.
- f. How the capacity can be increased in CDMA?
- g. What are the services offered by GSM?
- h. What is wi-fi technology?
- i. Define SS7.
- j. Define pure ALOHA.



SECTION-B

- 2. What are the factors influencing small scale fading?
- 3. Explain the diversity analysis for maximum ration combining aspect of receiver.
- 4. Devise the 4G visions and give the comparison of key parameters of 4G with 3G.
- 5. With diagram explain Personal Access Communication system.
- 6. Discuss about the technical challenges faced by the wireless communication.

SECTION-C

- 7. Explain with diagram, the different techniques available for signal combining.
- 8. Discuss the design issues of IEEE 802.11 and also provide the working of BDS, DS and www.FirstRanker.com ESS networks.
- Explain the functional architecture of PACS. 9.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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