Paper / Subject Code: 42472 / MOBILE COMMUNICATION SYSTEM

04/06/2025 BE EXTC SEM-VII C-SCHEME MCS QP CODE: 10082873

AB: (1) Question No.1 is compulsory (2) Write any three questions from Q.2 to Q.6. (3) Draw a neat diagram wherever necessary. (4) Assume suitable data if required and state it clearly. Q.1 Attempt any four A Explain power control process in WCDMA. B Explain FHSS with diagram. C How MIMO increases data rate. D Explain large scale and small-scale fading. E Explain RAKE receiver. Q.2 A Explain handoff process with diagram, also explain soft and hard handoff. B Draw GSM architecture and explain working of it. Q.3 A Compare multiple access techniques SDMA, TDMA, FDMA and CDMA B Explain following terms related to fading 1. Coherence BW 2. Doppler spread 3. Multipath propagation Determine the received signal power by a mobile at a distance of 10km from a 50W cell-site transmitter operating at a carrier frequency of 1900Mhz. The transmitter antenna gain is unity and receive antenna gain is 2. Assume free-space propagation conditions. Q.4 A Draw UTRAN block diagram and explain function of each block. B Explain speech signal processing in GSM. Q.5 A Explain technologies enabling 5G. Draw and explain 3GPP LTE architecture. Q.6 Write short notes (any two) A Explain reverse link traffic channel of IS 95 CDMA system. B Software Defined Radio C Compare IG, 2G, 3G and 4G D Explain architecture of EDGE technology, how EDGE technology enhances data rate.	Time:	3 Hours Marks: 8	U
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