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GIET UNIVERSITY, GUNUPUR – 765022
M. Tech (First Semester – Regular) Examinations, June – 2021
MPCEC1020 – Wireless and Mobile Communication
(ECE)

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A**(2 x 10 = 20 Marks)**Q.1. Answer **ALL** questions

- a. Define Cell splitting?
- b. List the significant benefits of GPRS technology?
- c. Outline about breathing cell in CDMA?
- d. Write about umbrella cell?
- e. Define co-channel interference
- f. Rate co-channel reuse ratio(Q)?
- g. Examine the function of Equalizer?
- h. Can you recall interleaving?
- i. What modulation approach is used IS-95?
- j. What does EDGE mean in mobile data?

PART – B**(6 x 5 = 30 Marks)**Answer **ANY FIVE** questions

Marks

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| 2. Write short notes on channel assignment | (6) |
| 3. Analyse about FDMA, TDMA | (6) |
| 4. With neat sketch describe Multipath propagation | (6) |
| 5. Enumerate Zero Forcing (ZF) algorithm | (6) |
| 6. Would you classify CDMA 2000 Forward Physical Channel and its Function? | (6) |
| 7. Discuss about Congestion Control, Quality of Service (QoS) in 4G systems | (6) |
| 8. Explain UMTS network architecture with neat sketch | (6) |

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