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Roll No

EC-6001 (CBGS)

B.E. VI Semester

Examination, May 2019

Choice Based Grading System (CBGS) Cellular Mobile Communication

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- 1. a) With the help of diagram explain the working of cellular system and performance criteria.
 - Discuss the concept of frequency reuse channels and co-channel interference reduction factor.
- a) Discuss the concept of handoff mechanism and cell splitting.
 - b) Explain about mobile point to point model.
- 3. a) Discuss about propagation over water or flat open area.
 - b) Determine the path loss from point to point prediction model.
- a) Discuss about mobile to mobile propagation.
 - Discuss about equivalent circuits of antennas. Also explain about gain and pattern relationship.

- a) Explain co-channel interference. Discuss real time co-channel interference measurement at mobile radio transceivers.
 - Explain briefly about types of Non co-channel interference.
- Discuss in detail about frequency management and channel assignment.
- a) Explain the GSM architecture and layering model.
 - b) Explain the working principle of CDMA.
- 8. Write short notes on any two of the following:
 - a) C/I in an omnidirectional antenna system
 - b) Handoffs and dropped calls
 - PDC, PCN and PCS
