

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.
b) Discuss the concept of frequency reuse channels and co-channel interference reduction factor.
2. 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.
4. a) Discuss about mobile to mobile propagation.
b) Discuss about equivalent circuits of antennas. Also explain about gain and pattern relationship.

5. a) Explain co-channel interference. Discuss real time co-channel interference measurement at mobile radio transceivers.
b) Explain briefly about types of Non co-channel interference.
6. Discuss in detail about frequency management and channel assignment.
7. 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
c) PDC, PCN and PCS
