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MANIPAL INSTITUTE OF TECHNOLOGY

Manipal University

FOURTH SEMESTER B.TECH DEGREE END SEMESTER

EXAMINATION - APRIL / MAY 2017

SUBJECT: INTRODUCTION TO COMMUNICATION SYSTEMS (ECE - 3283)
(OPEN ELECTIVE)

TIME: 3 HOURS

MAX. MARKS: 50

Instructions to candidates

- Answer **ALL** questions.
- Missing data may be suitably assumed.

- 1A. Draw the block diagram of a typical communication system & explain.
1B. Describe LED optical source used in optical communication.
1C. Explain Attenuation, Noise with respect to communication
(4+4+2)
- 2A. Draw the block diagram of a basic telephone set & explain the various blocks.
2B. With neat diagram, explain the working of Radar.
(6+4)
- 3A. With neat block diagram, explain GSM Architecture.
3B. Explain Power budget analysis of an optical fiber link.
(6+4)
- 4A. Discuss any two wireless technologies and also list their applications.
4B. Explain subsystems of satellite.
(6+4)
- 5A. With neat diagram, explain different types of optical fiber giving their advantages and disadvantages.
5B. Explain any two satellite applications.
5C. Describe Radar Displays.
(4+4+2)