

S. B. Roll. No.....

COMMUNICATION SYSTEM
4th Exam/ECE/6561/Jun'2021
(For 2018 Batch Onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

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|---|-------------------|-------------------------|--------------------------|
| i. Define | a) Fidelity | b) Sensitivity | c) Image rejection ratio |
| ii. Explain the block diagram of High level AM Transmitter. | | | |
| iii. Briefly explain the following terms | a) Effective Area | b) Radiation pattern | |
| iv. Write a short note on Dish antenna. | | | |
| v. Explain the following terms | a) Skip distance | b) Multiple hop propaga | |
| vi. What is the need of de-emphasis in FM reception? | | | |
| vii. What is geo stationary satellite? Also explain its need. | | | |
| viii. Compare active and passive satellites. | | | |

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Explain the working of super heterodyne AM receiver with the help of neat block diagram.
- b. Explain the concept of VSAT along with diagram.
- c. Compare the different modes of propagation i.e. ground, sky and space wave propagation
- d. Explain in detail the working of Armstrong method of FM generation.
- e. Write a short note on **(any two)**
 - i. Horn antenna
 - ii. Folded dipole
 - iii. Electromagnetic Spectrum