



C16/C16S-EC-304

5460

BOARD DIPLOMA EXAMINATION, (C-16/C-16S)

JUNE / JULY - 2020

DECE - III SEMESTER EXAMINATION

ANALOG COMMUNICATION

Time : 3 Hours]

[Total Marks : 80

PART - A

3×10=30

Instructions : (1) Answer ALL questions.
(2) Each question carries THREE marks.
(3) Answer should be brief and straight to the point.

- 1 Define modulation.
- 2 Define signal to noise ratio and noise figure.
- 3 List the advantages and disadvantages of FM over AM.
- 4 List the applications of SSB.
- 5 List the specifications of transmitters.
- 6 Mention the advantages of super heterodyne receiver.
- 7 Define maximum usable frequency (MUF).
- 8 Define fading.
- 9 Define antenna gain and directivity.
- 10 Define isotropic antenna and draw its radiation pattern.

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[Contd...

PART - B

10×5=50

Instructions : (1) Answer any FIVE questions.
(2) Each question carries TEN marks.
(3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.

- 11 Define distortion and list causes of distortion and measures for distortion less transmission.
- 12 What is an AM and derive the time domain equation for an AM signal.
- 13 State the need for pre-emphasis and de-emphasis in FM.
- 14 Draw and explain the High level modulation AM transmitter.
- 15 Draw and explain the Armstrong FM transmitter.
- 16 Describe reflection, refraction and diffraction of EM waves.
- 17 Explain about space wave propagation.
- 18 What is half wave dipole ? Explain the formation of half wave dipole. draw its radiation pattern.

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