21BSC5C5ELL

No. of Printed Pages : 2

Sl. No.

B.Sc. V Semester Degree Examination, April/May - 2024

ELECTRONICS

DSC - 5 : Electronic Communication

(NEP)

Time : 2 Hours	Maximum Marks : 60
Note : Answer all sections.	

SECTION - A

1. Answer all questions.

- (a) What is antenna ?
- (b) Define ionospheric wave propagators.
- (c) What is lumped parameters ?
- (d) What is modulation ?
- (e) Expand AM and FM.
- (f) What is modulation index ?
- (g) Define sensitivity of radio receivers.
- (h) What is AGC ?
- (i) What is VSWR ?
- (j) What is gain of antenna ?

SECTION - B

Answer **any four** questions.

- 2. Explain the different methods of radio wave propagations.
- **3.** Write a note on Maxwell's equations in vector modes.
- **4.** Explain the importance of communication in electronics.
- **5.** Explain the working of collector modulator.
- **6.** Explain the working of Varactor diode as FM modulator.
- 7. Write a note on TRF receiver with block diagram.

10x1 = 10

4x5=20

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SECTION - C

2

Answer **any three** questions.

- 8. Write antenna parameters and explain in brief.
- 9. Explain different types of Transmission lines in brief.
- **10.** Derive an expression of Amplitude modulations in communication system.
- 11. With a neat circuit diagram explain Balanced modulator.
- **12.** With a neat circuit block diagram explain AM Superheterodyne receiver. Mention its advantages.

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3x10=30