



RAN - 2103000206020095

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T.Y.B.Sc. (Electronics) (Sem. VI) Examination March - 2025

Electronics Paper : 10 Applications of Communication Systems

सूचना : / Instructions

(१)

नीचे दशावैल निशानीवाणी विगतो उत्तरवही पर अवश्य लपववी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y.B.Sc. (Electronics) (Sem. VI)

Name of the Subject :

Electronics Paper : 10 Applications of Communication Systems

Subject Code No.: **2103000206020095**

Seat No.:

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Student's Signature

- (2) Figure on the right indicates full marks.
- (3) All symbols and abbreviations have their usual meaning.
- (4) Non-programmable calculators are allowed.
- (5) Q.1 is compulsory.
- (6) Assume data if necessary.

Q.1. Answer in brief. 08

- A) Write the full name of AFC and SHR.
- B) Why we need demodulation in communication?
- C) State the basic principle of operation of RADAR.
- D) What do you mean by scanning in TV?

Q.2. 14

- A) Explain the ideal characteristics of AM receiver.
- B) Explain Diode detector circuit in detail.

OR

Q.2 14

- A) Draw the block diagram of TRF and explain each block in detail.
- B) Draw the block diagram of SHR receiver explain each block in detail.

Q.3 14

- A) Draw the block diagram of TV transmitter/receiver and explain each block.
- B) Explain various Scanning systems of TV in detail

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OR

Q.3

14

- A) Draw the Block diagram of Pulsed RADAR and explain each block.
- B) Explain various uses of RADAR.

Q.4

14

- A) Draw the block diagram of the Ratio detector and explain each block in detail.
- B) Short Note on Colour television.

OR

- A) State the application of Radar Range Equation and derive it
- B) Short Note on Radio Direction Finding (RDF) in RADAR system

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