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Total No. of Questions: 09

B.Tech.(ETE)/(ECE) (2011 Onwards) (Sem.-6) MICROWAVE AND RADAR ENGINEERING

Subject Code: BTEC-601 M.Code: 71121

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

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1. Answer briefly:

- a) Conventional tubes
- b) PIN
- c) Phase shifter
- d) SWR
- e) Radar range ambiguities
- f) Blind speed
- g) Range tracking system
- h) Doppler velocity determination
- i) Matched termination
- i) CW radar



SECTION-B

- 2. Write a note on TWT microwave tube.
- 3. Describe various ferrite devices in detail.
- 4. Explain the principle and operation of MTI radars.
- 5. Describe PRF with the help of diagram.
- 6. How can the microwave components be analyzed using s-parameters?

SECTION-C

- 7. Write a note on Microwave bridges.
- 8. Define scanning. Describe different types of scanning techniques.
- 9. Explain MASER in detail. Also write its advantages and disadvantages.

NOTE: Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.

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