



**SECTION-B**

- Q2 Explain the concept of 'mono-pulse tracking'.
- Q3 Explain briefly various missile parameters used for dynamic analysis.
- Q4 Write a note on 'Satellite navigation'.
- Q5 Explain the concept of 'proportional navigation guidance'.
- Q6 Explain the working principle of 'GPS'.

**SECTION-C**

- Q7 Explain the following :
- a) Longitudinal flight control system and Lateral flight control system. (6)
  - b) Conical scan and sequential lobbing. (4)
- Q8 Explain the working principle of 'MTI and Pulse Doppler Radar'. What is moving target detector? List various limitations of MTI performance. (6,2,2)
- Q9 Write notes on the following :
- a) Inertial navigation system (5)
  - b) Director fire control system (5)

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