

**2069**

**Group A**

**Attempt any Two questions :**

**(2\*12=24)**

- 1.) What is a real time system ? Explain it's various components with a suitable block diagram.  
Explain the RADAR signals processing with block diagram .
- 2.) What do you understand by static slack computation in fixed – priority systems? Explain with example.
- 3.) What are the three commonly used approaches to scheduling the real time systems? Compare each of them.

**Group B**

**Attempt any Eight Questions :**

**(8\*7=56)**

- 4.) What is digital control? Explain with example.
- 5.) What is soft real time systems? Explain with example.
- 6.) Differentiate between dynamic system and static systems with example.
- 7.) Explain the sporadic server in fixed priority system.
- 8.) Explain the slack computation in fixed priority system with example.
- 9.) What are the procedure of a simple acceptance test in deadline-driven systems ? Explain.
- 10.) What are the properties of the priority-inheritance protocol ? Explain.
- 11.) Explain the weighted round robin service disciplines with example.
- 12.) Explain the real time communication model with diagram.
- 13.) Write Short notes on :
  - a.) Fixed Priority scheduling in CAN
  - b.) Greedy WRR discipline