

## Introduction to Real-time Embedded Systems

Name:

Roll No:

1. Which of the following is a real time embedded system? Justify your answer

- a) Television
- b) Flight Control System
- c) Microwave Oven
- d) Laser Printer
- e) Digital Camera
- f) Mobile Phones
- h) Desktop Keyboard

2. Mention at least five examples of embedded systems you are using/observing in your day to day life.

3. Real-Time systems

- a) must be embedded
- b) respond to external events in a timely fashion
- c) can never tolerate missed deadlines
- d) can tolerate missed deadlines

4. Response time is the total time:

- a) it takes to convert analog to digital in a digital display thermometer
- b) it takes to resolve a number flight simulation game
- c) between seeing a stimulus and finally acting according to that stimulus
- d) a processor is utilized

3. What would you expect the response time for a flight simulator used in the Airforce to be:

- a) 10 microseconds
- b) several seconds
- c) 100ms
- d) hours

4. An automated teller machine would be classified as what type of real-time system:

- a) soft
- b) hard
- c) medium
- d) firm