## EMBEDDED SYSTEMS

#### PART-A

- 1. Define EDLC.
- 2. What is meant by user acceptance testing?
- 3. Define Data Flow Graph model?
- Write about the processes involved in Co-Design.
- 5. Define Class in object oriented model?
- Define RTOS and its functions?
- 7. What are the benefits of multithreaded programming?
- Define semaphore.
- 9. What is priority inheritance?
- Define MUTEX.

#### PART B

- 11. a.) Illustrate with functional description about the different phases of EDLC. (13)
- b.) Explain in detail (a) fountain model (b) water fall model (13)
- a.) Explain in detail about prototyping model and spiral model
   (13)

## (O-)

- b.) Discuss in detail about the various fundamental issues in software and hardware co design. (13)
- 13. a.) Explain in detail the following computational models
  (i) Concurrent process model (ii) object oriented model. (13)
  - (Or)
    b.) Explain in detail how memory management and interrupt handling in RTOS. (13)
- a.) Explain in detail how time management and error handling are done in RTOS.

#### (Or)

- b.) Discuss in detail about inter process communication and semaphore.
- 15. a.) Explain in detail about process and threads in RTOS (13)
  - (Or)
    b.) Explain in detail about Task scheduling in RTOS. (13)

#### PART C (1\*15-15)

a.) Explain the terminologies mailbox, pipes and shared memory in RTOS.

# **Embedded Systems Question Paper**

**Mainak Chowdhury, Arumita Biswas** 

**Embedded Systems Question Paper:** 

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