

13. a) Justify the following terms with suitable flow diagram and example for
(a) Task
(b) Process
(c) Threads and also distinguish Process with Thread. 13 K2 CO4

OR

- b) Explain in detail about the terminologies:
(a) Inter-process Communication
(b) Semaphores
(c) Mail box
(d) Pipes. 13 K2 CO4

14. a) Narrate in detail with suitable diagram for
i) In- Circuit Emulator. 7 K2 CO5
ii) Target Hardware Debugging. 6 K2 CO5

OR

- b) Develop in detail about the scope of UML modeling and UML basic element diagram. 13 K2 CO5

15. a) Analyze the following different phases of Embedded product Development Life Cycle (EDLC) 13 K3 CO6
(a) Conceptualization
(b) Analysis
(c) Design
(d) Development and Testing
(e) Deployment.

OR

- b) Discover with suitable Hardware and Software, explain the case study for a Smart card using Embedded System. 13 K3 CO6

PART - C (1 × 15 = 15 Marks)

16. a) Explain interrupt mechanism in detail and how polling is used to share an interrupt over several devices. 15 K2 CO3

OR

- b) Brief about the interrupt vectors and describe how multiple interrupts are handled by the devices. 15 K2 CO3