

19. (a) Describe the process life cycle.

Or

(b) Explain the software testing and validation technique.

20. (a) Discuss the issues in Embedded system design.

Or

(b) Give an account on Development phase.

Reg. No. :

Code No. : 6827

Sub. Code : C 5 AA

M.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2013.

Fifth Semester

Computer Applications –Allied

EMBEDDED SYSTEMS

(For those who joined in July 2008 – 2011)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

1. List the program models employed during the software design process.
2. What do you understand by an embedded system?
3. Mention the I/O types.
4. What is meant by latency?
5. Define Process.
6. State the functions of ISR.



7. What is UML?
8. What is the need for testing?
9. List the use of software tools.
10. What is the need for hardware tests?

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Discuss the classification of embedded systems.

Or

- (b) Write a note on DMA.

12. (a) Discuss the significance of counting devices.

Or

- (b) Explain parallel communication buses.

13. (a) What is a task? How is it significance in embedded systems?

Or

- (b) Explain co – operative scheduling model.

Page 2 Code No. : 6827

14. (a) Write a note on project management.

Or

- (b) Discuss on OS security.

15. (a) Explain the use of Target system.

Or

- (b) Discuss on Hardware Tests.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Describe the structural units in a processor.

Or

- (b) Explain memory types and address allocation in memory.

17. (a) Write an essay on Device Drivers.

Or

- (b) Discuss on Interrupt servicing.

18. (a) Explain Network Operating System.

Or

- (b) Discuss the concept of interprocess communication.

Page 3 Code No. : 6827

