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Set No. 1

Code No: **R41042**

IV B.Tech I Semester Supplementary Examinations, March/April - 2016 EMBEDDED SYSTEMS

(Common to Electronics & Communication Engineering and Electronics & Computer Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks *****

- 1 a) What are Embedded systems? Give the classification of Embedded systems.
 - b) Explain various interfaces for external communication
- 2 a) Explain important characteristics of an embedded system.
 - b) Briefly discuss different application areas for Embedded systems.
- 3 a) Explain VLSI and Integrated Circuit design.
 - b) Discuss the guidelines for PCB layout.
- 4 a) Compare Super loop based and OS based embedded firmware design.
 - b) What are the interrupt sources and explain interrupt service mechanism.
- 5 Explain Task Scheduling including its scheduling Algorithms.
- 6 Discuss fundamental issues in Hardware software Co-Design.
- 7 a) Explain the various elements of an embedded system development environment.
 - b) Explain Disassembler and Decompiler and their role in embedded firmware development.
- 8 Discuss all the Laboratory tools for embedded system implementation and testing.

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