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## **MEVD-205** M.E/M.Tech., II Semester

Examination, June 2017

# **Embedded Computing System Design**

Time: Three Hours

Maximum Marks: 70

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Note: i)

- Attempt any five questions.
- ii) All questions carry equal marks.
- Explain in detail the design process in embedded system.
  - Explain, what are the challenges of embedded system?
- Explain the various levels of embedded system design
  - Explain ARM processor and memory organisation. How do you return from a ARM procedure?
- Explain the difference between ARM processor and SHARC processor.
  - Explain the memory organisation in embedded system.

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- How the CPU performance can be improved by pipelining and super scalar?
  - Explain CPU BUS and BUS protocols. Draw a UML sequence diagram that shows a four-cycle handshake between a bus master and a device.

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- 5. a) Explain assembly, linking and loading steps in the compilation process with the help of block diagram.
  - Explain the program design, program size and execution time.

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- Explain the working of software modern.
  - What is the quality assurance in embedded system?
- 7. a) What do you understand by design methodology? What are the basic goals for design process for embedded computing systems?
  - Explain the case study of internet enables system of an embedded system.
- 8. Write short note on any two:
  - System design techniques
  - Models of program
  - Flow control

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