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

Examination, December 2015

Embedded Computing System Design

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- rgpvonline.com 1. a) What are the challenges in designing Hardware and Software components?
 - What are the various precautions that must be taken into account while designing an embedded system?
- What you mean by parallelism within the instructions, give an example?
 - b) Explain the data operations and control of flow in embedded system.
- What are the differences between ARM and SHARC processors?
 - b) What are the different interrupts are available in an ARM processors?

- What is data compression, discuss by giving an example.
 - Discuss the various bus protocols in an ARM processor.
- What are the various parameters should be considered while designing a program for embedded system?
 - What are the different ways to minimize the program size?
- How one can minimize the execution time? Illustrate with a suitable example.
 - Discuss the effect of program size and execution time on the performance of CPU.
- Discuss various design issues in development of an Embedded system.
 - What are the different models of program in Embedded system?
- Write short notes on (Any Two):
 - System design techniques
 - ii) System Analysis
 - iii) Quality assurance

With respect to Embedded system design.

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