

Roll No. .... **RGPVONLINE.COM****MEVD - 205****M.E./M.Tech., II Semester**

Examination, June 2014

**Embedded Computing System Design***Time : Three Hours**Maximum Marks : 70**Note :* Attempt any five questions. All questions carry equal marks.

1. a) Explain the various levels of embedded system design process? ~  
b) What are the challenges in Embedded Computing System? ~
2. a) Explain the difference between ARM processor and SHARC processor? ~  
b) Explain the memory organisation in embedded system? ~
3. a) Explain the ARM processor, architecture and instruction set. ~  
b) Explain the data compression techniques in embedded system. ~
4. a) Explain the Hardware units that must be present in embedded system? ~  
b) Explain the program design, program size and execution time? ~

5. Explain the following: 14  
i) System Design Techniques.  
ii) Internet Enabled System.
6. Explain embedded programming in C? Write the programme to blink LED's using embedded C? 14
7. a) Explain the interrupts handler? Also write down the applications of the Interrupt handler? 10  
b) Explain the working of Software Modem? 4
8. Short notes (any two): 14  
i) Software components  
ii) Models of program  
iii) CPU Bus protocols

\*\*\*\*\*

**RGPVONLINE.COM**