

Code No: **R41042****R10****Set No. 1****IV B.Tech I Semester Supplementary Examinations, February/March- 2018****EMBEDDED SYSTEMS****(Common to Electronics and Communication Engineering & Electronics and Computer Engineering)****Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions
All Questions carry equal marks***********

- 1 a) Explain the classification of Embedded system based on:
i) Generation [8]
ii) Complexity and Performance [7]
b) Discuss the Programmable Logic Devices in Embedded System. [7]
- 2 a) What is non-Operational Quality Attribute? Discuss in brief the Non Operational Quality Attributes of embedded system. [8]
b) Explain inner working and communication buses of Automotive embedded systems. [7]
- 3 a) Discuss the sequential circuits. [8]
b) Discuss the timer and counting devices. [7]
- 4 a) Explain the super loop based approach. [8]
b) Explain mixing assembly and high level language for embedded firmware development. [7]
- 5 a) Explain Robin Round scheduling with neat sketch and example. [8]
b) Explain Remote procedure call (RPC) and sockets. [7]
- 6 a) Discuss the state machine model. [8]
b) Explain In System Programming (ISP). [7]
- 7 a) Discuss the Keil μ Vision3 IDE for 8051. [8]
b) Explain Target hardware debugging. [7]
- 8 a) Write note on:
i) Pre-processors [8]
ii) Interpreters. [8]
b) Discuss the CAD and hardware of embedded system implementation. [7]