Code No: **R41042**   **R10**   **Set No. 1**

IV B.Tech I Semester Supplementary Examinations, February - 2019
EMBEDDED SYSTEMS
(Electronics and Communications Engineering)

Time: 3 hours   Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks
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1 a) List the application areas of embedded system and explain.   [8]
   b) What is PCB? Explain the PCB and its passive components   [7]

2 a) Explain the Quality attributes of embedded system.   [8]
   b) Discuss the characteristics of embedded systems.   [7]

3 a) Explain about the EDA tools used in Embedded hardware.   [7]
   b) Explain about the serial communication devices and parallel device ports of
       Embedded hardware design.   [8]

4 a) Define interrupt. Explain about Interrupt service mechanism.   [8]
   b) Explain about DMA.   [7]

5 a) Explain about task communication and task scheduling of real time operating
       system.   [8]
   b) What is RTOS? Explain how to choose an RTOS?   [7]

6 a) Explain the hardware and software trade-offs.   [7]
   b) Discuss the computational models in embedded system design.   [8]

7 a) What is IDE? Explain about the IDE of embedded system development. [7]
   b) Discuss about embedded software development process and tools.   [8]

8   Write a short notes on
       (a) Compilers
       (b) Linkers.   [15]

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