R09

Code: 9A04701

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013
EMBEDDED REALTIME OPERATING SYSTEMS
(Common to ECE, E.Con.E, EIE & CSS)

Time: 3 hours   Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

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1.   Discuss briefly the core of the embedded systems and supporting types.

2.   List out the characteristics of an embedded system. Explain supporting quality attributes.

3.   Discuss briefly embedded firmware design and supporting approaches.

4.   Sketch and explain the functions of a real time kernel. What is task scheduling?

5.   Give a complete overview on parallel bus device protocols.

6.   Discuss the importance of DFG in program modeling concepts. List out and explain
        supporting types.

7.   Explain the role of interrupt routines in RTOs with example.

8.   Discuss briefly an embedded system for an adaptive cruise control system in a car.

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