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

IV B.Tech I Semester Supplementary Examinations, March - 2017
EMBEDDED SYSTEMS
(Common to Electronics & Communication Engineering and
Electronics & Computer Engineering)

Time: 3 hours   **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
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1   Discuss overview of the various interfaces for On Board Communication.

2   Explain Non Operational Quality Attributes of embedded systems.

3   a)   Explain digital combinational circuits with example.

   b)   Write note on i) Multiplexer(MUX)   ii) De-Multiplexer(D-MUX)

4   Explain the different 'embedded firmware design' approaches in detail.

5   a)   What is device driver? Explain its role in the OS context.

   b)   Explain Non-Preemptive Scheduling.

6   a)   Explain In System Programming (ISP) for firmware embedding.

   b)   Explain the steps involved in the Out-Of-Circuiting Programming.

7   Explain Simulators, In Circuit Emulator (ICE) and debuggers and their role in embedded firmware debugging.

8   a)   Discuss the quality assurance and testing of the embedded system design.

   b)   Write the Features of a typical Simulator.