JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, March - 2021
EMBEDDED SYSTEM DESIGN
(Common to ECE, EIE, ETM)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks
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1. What is an embedded system? Explain the different applications of embedded systems. [15]

2. Discuss the Characteristics and Quality Attributes of Embedded Systems. [15]

3. What is Application Specific Integrated Circuited (ASIC)? Explain the role of ASIC in Embedded System Design. [15]

4. Explain on-board and external communication interfaces in detail. [15]

5. What is watchdog timer? Explain its role in embedded system design? [15]

6. What is the role of reset circuit and Brown-out Protection Circuit in embedded system? [15]

7. Explain how 'accurate time management' is achieved in real time kernel. [15]

8. What is device driver? Explain the architecture of device drivers. [15]

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