JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, February/March - 2022
INTRODUCTION TO EMBEDDED SYSTEMS
(Computer Science and Engineering)

Time: 3 Hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.   Explain the different characteristics of embedded systems in details.   [15]

2.   Explain the various purposes of embedded systems with illustrative examples.   [15]

3.a) What is memory shadowing? What are its advantages?
  b) Explain the role of watch dog timer in embedded system design.   [7+8]

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

5.   Explain the 'high level language' based embedded firmware development. Write its
      advantages.   [15]

6.   Explain the different Embedded Firmware Design Approaches.   [15]

7.   Discuss various activities involved in the creation of process and threads.   [15]

8.   Explain the role of Integrated Development Environment (IDE) for Embedded Software
      Development.   [15]

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