

Exam. Code : 208601
Subject Code : 4810

M.Sc. Information Technology 1st Semester
(Batch 2021-23)

ANALYSIS & DESIGN OF EMBEDDED SYSTEMS

Paper : MIT-101

Time Allowed—3 Hours] [Maximum Marks—100

Note :—Attempt FIVE questions in all, selecting at least ONE question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

SECTION-A

1. (a) What do you mean by embedded system ?
How does embedded system differ from non-embedded system ? 10
- (b) Explain different types of processors in the embedded system. 10
2. What are the challenges and issues in embedded software development ? Discuss. 20

SECTION-B

3. What is DSP based controller ? Explain its various applications. 20
4. Explain PIC Microcontrollers Architecture with the help of diagram. 20

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(Contd.)

SECTION-C

5. What do you understand by operating system ? Explain different categories of operating systems. 20
6. What are the types of Kernel Architecture ? Discuss. 20

SECTION-D

7. Why system development tools are important ? Explain briefly various development tools for an embedded software system. 20
8. List and explain briefly various phases of embedded system development life cycle. 20

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