

# AE-827

M.Sc. (Final)

Term End Examination, 2016-17

# COMPUTER SCIENCE

# Embedded System Programming

*Time : Three Hours]                      [Maximum Marks : 100*

[Minimum Pass Marks : 36

**Note** : Answer **all** questions. All questions carry equal marks.

1. What is meant by Embedded System Design Process ? Explain. Also explain in detail about the formulation of system design.

***OR***

What is Microprocessor ? Explain its architecture.

- 2. What is meant by Direct Memory Access ? Explain in detail.**

***OR***

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What are interrupts ? Explain I/O interrupts in detail.

3. Explain Assembly Language Programming Process by giving a suitable example.

**OR**

What are jump and call instructions ? Explain with suitable examples.

4. Explain embedded system. Also explain main challenges and issues of embedded software development environments.

**OR**

Explain the following :

- (a) Real-time Operating Systems
- (b) Host and Target Machines

5. What is meant by embedded system development process ? Explain in detail.

**OR**

Explain the following :

- (a) Testing and Debugging
  - (b) To choose the Operating System
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