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

(2)

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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