



**AF-3583**

M.Sc. (Final)  
Term End Examination, 2017-18

**COMPUTER SCIENCE**

Paper - IV

Embedded System Programming

*Time : Three Hours] [Maximum Marks : 100*  
*[Minimum Pass Marks : 36*

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

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1. What is general purpose processor ? What are its main features ? Explain in brief about super-scales processor.

**OR**

What is Memory ? Give the detailed classification of memory ? Explain in short Cache-memory.

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2. What are convertors ? Explain the working of any one analog to digital convertors and give their advantages and disadvantages.

**OR**

What is DMA ? What are its advantages ? Explain burst-mode of operation of DMA with flow chart.

3. Explain the internal architecture of 8051 micro controller with block diagram.

**OR**

Explain two instructions of each data transfer and logical group with suitable example.

4. What is embedded system software ? Discuss the various challenges and issues in embedded software development in brief.

**OR**

Explain the following in brief:

- (a) Kernel Architecture
- (b) Real-time Operating System

5. Explain the following :

- (a) To choose the processor
- (b) To choose the operating system

**OR**

( 3 )

What is embedded system development process ? Explain. What are its requirements ? Explain.

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