



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

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

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.

(2)

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.
