

## Scheme – I

### Sample Question Paper

**Program Name** : Diploma in Industrial Electronics  
**Program Code** : IE  
**Semester** : Fifth  
**Course Title** : Microcontroller and Applications  
**Marks** : 70

**22537**

**Time: 3 Hrs.**

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#### Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

#### Q.1) Attempt any FIVE of the following: -

**10 Marks (5X2)**

- (a) Define the term BUS. List out the different types of BUSES.
- (b) Find out the number of address lines required to access 8KB of RAM.
- (c) List different files required during assembly language program.
- (d) Compare Timer and Counter on the basis of Mode of operation.
- (e) Classify the following application under Von-Neuman and Harvard architecture.
  - i. Digital Signal Processing.
  - ii. Audio Processing
- (f) Compare Data memory and Program Memory.
- (g) Give the different applications of Stepper Motor.

#### Q.2) Attempt any THREE of the following: -

**12 Marks (3X4)**

- (a) Explain the interfacing diagram of DAC to 8051. Write an ALP to generate triangular waveform using DAC
- (b) Compare between Microprocessor and Microcontroller on the basis of:
  - i. Instruction Set
  - ii. Applications
  - iii. Memory Organization.
  - iv. I/O compatibility

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**JG Myers**



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