Scheme - I

Sample Question Paper

Program Name : Diploma in Industrial Electronics

Program Code : IE Semester : Fifth

Course Title : Microcontroller and Applications

Marks : 70 Time: 3 Hrs.

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)

22537

- (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.
 - 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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