



Microprocessor - II (1010)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
 2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
 3. Students should note, no supplement will be provided.
 4. Attempt **any two** sub questions from each question.
 5. Neat and labelled diagrams must be drawn wherever necessary.
 6. Assume suitable data wherever necessary.
 7. Figures to the right indicates full marks.
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1. a) Write down the set of instructions for 8255 to set and reset its bits PC₀, PC₃ & PC₅. Assume CWR of 8255 is at address 83H and it's don't care bits must be zero if any. 10
 - b) What are device drivers ? Enlist it's types and draw and explain the structure of MS-DOS device drivers. 10
 - c) Explain the following terms :
 - i) Differentiate between .com and .exe files. 5
 - ii) Only draw the internal architecture of 8255 PPI. 5
 2. a) Draw and explain the internal architecture of 8251 USART. 10
 - b) Explain the interfacing of ADC through 8255 with 8086 with appropriate diagram. 10
 - c) Draw the schematic of parallel printer interfacing and explain it's working. 10
 3. a) Explain the architecture of 8275 CRT controller with neat labeled diagram. 10
 - b) Explain the EGA graphics adaptors in details. 10

- c) Explain the following terms :
 i) keyboard interfacing. 5
 ii) ROM logic 5
4. a) Draw the system block diagram of FDC and explain the working of FDC. 10
 b) Explain various commands of Hard Disk controller in details. 10
 c) Write short notes on following :
 i) USB 5
 ii) PCI 5
5. a) Explain different interrupt generation in 8051. Also explain SFR required to enable or disable particular interrupt. 10
 b) What is microcontroller ? Draw and explain the internal architecture of 8051 microcontroller. 10
 c) Explain the various addressing modes of 8051 microcontroller with example. 10
