

Time : 3 Hrs.

Note :

1. Part 'A' may be attempted in first 5 pages of Answer Sheet.
भाग 'क' के सभी उत्तर, उत्तर-पुस्तिका के प्रथम पांच पृष्ठों में ही करने हैं।
2. Part 'B' in rest of the Sheets of Answer Sheet.
भाग 'ख' के उत्तर, उत्तर-पुस्तिका के अगले शेष पृष्ठों में लिखिये।
3. Answers may be given in English or Hindi.
प्रश्नों के उत्तर अंग्रेजी अथवा हिन्दी में दीजिये।

Part 'A'

10 x 2 = 20

1. Attempt any 10 questions:

- (i) What do you mean by debugger?
- (ii) List types of fault in troubleshooting microprocessor.
- (iii) What are different applications of 8085 microprocessor?
- (iv) Differentiate between emulator and simulator.
- (v) What is MDS?
- (vi) What's the use of multichannel DAS?
- (vii) Mention few displays devices.
- (viii) Briefly explain characteristics of microprocessor.
- (ix) How can you define A/D converters?
- (x) What is noise filtering means in microprocessor?
- (xi) What are the addressing modes supported by 8085?
- (xii) List out the instructions set available in 8085.
- (xiii) Define peripheral interfacing chips.
- (xiv) What does pseudo instruction stands for?

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2. Attempt any five questions:

5x4=20

- (i) Write a short note on IEE design 488, Current loop.
- (ii) How DRAM's are different from SRAM's? Why DRAMs are said to employ address multiplexing?

- (iii) ~~What do you mean by D/A conversion? Explain any one of the D/A techniques.~~
- (iv) Explain in detail the design architecture of 8085 microprocessor.
- (v) ~~What do you mean by simulator? Explain in detail.~~
- (vi) Write short note on the following:
- (a) Interfacing of keyboards
 - (b) Displays
- (vii) Explain how to control CNC machine with relevant design example.

Part-B**3x20=60****Attempt any 3 questions:**

3. (a) ~~Explain in detail the selection criterial of microprocessor for different applications.~~
- (b) ~~How does assembler works in microprocessor.~~
4. ~~Describe 8085 microprocessor architecture, programming model, addressing modes and instruction set in detail.~~
5. (a) Explain in detail instruments for fault finding
- (b) What is timing consideration and address decoding in memory interfacing of microprocessor.
6. Write short note on :
- (i) 8255
 - (ii) 8253

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