

С16-СМ/ІТ-404

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BOARD DIPLOMA EXAMINATION, (C-16) MARCH/APRIL-2018

DCME—FOURTH SEMESTER EXAMINATION

MICROPROCESSORS

Time : 3 hours]

] [Total Marks : 80

PART—A

3×10=30

- Instructions : (1) Answer all questions.
 - (2) Each question carries three marks.
 - (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
 - 1. Define Microprocessor and Microcomputer.
 - 2. Write the functions of ALE and MN/MX pins of 8086.
 - 3. Classify the instructions set of 8086.
 - 4. Write short notes on PUSH and POP instructions of 8086.
 - **5.** List the types of interrupts.
 - 6. Write a short note on Read/Write control logic of 8259.
 - 7. State the Conditional and Loop statements of 8086.
 - 8. List any three features of 80486.
 - 9. Write a short note on 8051 modes of operation.
- **10.** Write about 8051 microcontroller ports.

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[Contd...

PART—B

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Instructions : (1) Answer any **five** questions.

- (2) Each question carries ten marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **11.** (a) Draw 8086 functional block diagram.
 - (b) Explain interrupt handling process in 8086. 5
- 12. Explain various addressing modes of 8086 with example.
- **13.** Explain any five data transfer and arithmetic instructions of 8086.
- **14.** Draw and explain functional block diagram of 8259 interrupt controller.

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- **15.** Write an assembly language program to find square of 8-bit number using parameter passing to procedure.
- **16.** (a) List the features of Pentium processor P-II. 5
 - (b) Differentiate between 80286, 80386 processors.
- **17.** Draw and explain functional block diagram of 8051 microcontroller.
- **18.** Explain in detail about counters and timers in 8051 microcontroller.

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