

4452

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE-2019

DCME - FOURTH SEMESTER EXAMINATION

MICROPROCESSORS

Time: 3 Hours

Max.Marks:80

PART-A

3X10=30M

Instructions: 1) Answer **all** short answer questions.
2) Each question carries **three** marks.

- 1) List any three Microprocessors.
- 2) Write a short note on address lines of 8086 microprocessor.
- 3) Explain the use of linker and debugger.
- 4) Write a short note on assembler directives and list any two assembler directives.
- 5) Write a short note on 8086 hardware interrupts.
- 6) What is the need for Parameter passing?
- 7) Differentiate between CALL and RET instructions.
- 8) List different DMA data transfer schemes.
- 9) List the three basic input modes of 8279.
- 10) What are the functional units of 80486?

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PART-B

5x10=50M

Instructions: 1) Answer any **five** questions.
2) Each question carries **Ten** marks.

- 11) (a) Draw the functional Block diagram of 8086 Microprocessor and explain.
(b) Explain the debugging process of 8086 assembly language program.
- 12) List any five Unconditional Branch instructions.
- 13) List and explain 8086 Addressing modes.
- 14) Explain the modes of Operation of 8259A programmable Interrupt controller.
- 15) Write an assembly language program to arrange a given series of hexa decimal bytes in descending order.
- 16) Explain the working of 8251 USART with neat block diagram.
- 17) Explain the operating modes of 8279 keyboard/Display controller.
- 18) Explain the architecture of Pentium processor with neat diagram.

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