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Roll No

IT-5005(1)-CBGS

B.E. V Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Microprocessor and Interfacing

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain the architecture of microprocessor with suitable diagram?
b) What are addressing modes? Describe various addressing modes in short.
2. a) Explain top down and bottom up design in detail?
b) Write an Assembly Language Program (ALP) to count the odd and even numbers in series of numbers?
3. a) Write an ALP to perform the subtraction of two 16 bits binary number?
b) What are microcontrollers? Explain the working of microcontrollers in detail?
4. a) Explain the architecture of Intel 8051 microprocessor?
b) What is Co-processor? Describe Math-coprocessor in detail?

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5. a) Describe Interface I/O Port Addressing in detail.
b) Write an ALP to convert BCD data to Binary Data?

6. a) Explain the interrupts of 8085 microprocessor?
b) Describe 16550 programmable communication interface A/D in detail?

7. a) Explain direct memory access controller with suitable diagram.
b) What is Bus? Describe ISA Bus and EISA Bus in detail?

8. a) What are shift registers? Explain with suitable example.
b) Explain the working of Disk drive and Tap drive in detail?

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