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**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE – RAIGAD -402 103
Semester Winter Examination – Nov - 2019**

Branch: Information Technology

Subject with Subject Code: -Microprocessors and Microcontrollers (BTITC401)

Date: -26/11/19

Sem.: -IV

Marks: 60

Time: - 3 Hr.

Instructions to the Students

1. Each question carries 12 marks.
2. Attempt **any five** questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly

Marks

- | | |
|---|-----|
| Q.1. a) Draw and explain the architecture of 8088 microprocessor. | (6) |
| b) Explain in details of maximum mode operation of 8086 family. | (6) |
| Q.2. a) Compare Procedure & Macro. | (4) |
| b) Write an assembly program to add two numbers Program. | (4) |
| c) Write an assembly program to multiply a number by 8 Program. | (4) |
| Q.3. a) Draw and discuss the interrupt structure of 8086 | (6) |
| b) Compare memory mapped I/O and I/O mapped I/O. | (3) |
| c) Distinguish between SRAM and DRAM. | (3) |
| Q.4. a) Explain the concept of serial communication. | (6) |
| b) List out data type supported by 8087. | (3) |
| c) What are the addressing modes available in 8086? | (3) |
| Q.5. a) Give detailed explanation for Intel 8051 microcontroller architecture with neat diagram. | (6) |
| b) Explain the addressing modes of 8051? | (6) |
| Q.6. a) Differentiate features of microprocessor and microcontroller. | (4) |
| b) Write down the Overview / features of PIC18 MCU. | (4) |
| c) What are the PIC18 Addressing Modes? | (4) |

Paper End