

B.Sc. - II CBCS Pattern Semester-III
USELT06 - Electronics Paper-II : Microprocessor

P. Pages : 2

Time : Three Hours



GUG/W/23/11605

Max. Marks : 50

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- Notes : 1. All the questions are compulsory and carry equal marks.
2. Draw the neat and labelled diagrams wherever necessary.

Either:

1. a) Draw the block diagram of 8085 microprocessor and Explain the function of each block? **10**

OR

- b) What is memory? Differentiate between ROM and RAM? Explain different types of ROM. **1+4+5**

Either:

2. a) What is an addressing mode? Explain register indirect and implicit addressing mode with suitable example? Explain the meaning of the following **1+6+3**
i) SBBr
ii) ADDc
iii) ADIdata

OR

- b) What is flow chart? Explain various symbols used in flow chart? Explain operation of stack. **6+4**

Either:

3. a) State various groups of instruction set in 8085 microprocessor with one example of each? Write an APL to perform addition of two 8-bit number stored in memory location 6500H, 6501H? **6+4**

OR

- b) Explain the hardware and software interrupts. **6+4**
Write an ALP program to perform multiplication of any two 8-bit numbers.

Either:

4. a) State the salient features of 8086 microprocessor. Draw its internal architecture and explain function of execution unit. **3+7**

OR

- b) State and explain any four arithmetic group of instruction of 8086 microprocessor. **10**

5. Attempt **any ten** of the following

1x10

- a) What is input device?
- b) What is non volatile memory?
- c) What is program counter?
- d) What is subroutine?
- e) State any two branch group instructions.
- f) What is immediate addressing mode?
- g) What is the meaning of MVIR data?
- h) List any four instruction in logical group of instruction.
- i) What is the use of delay loop?
- j) What is the instruction pointer in 8086 microprocessor.
- k) What is the segment regi. in 8086 microprocessor.
- l) What is the use of stack pointer in 8086 microprocessor.
- m) List the flags of 8086 microprocessor.
