

Roll No.

Total No. of Pages : 02

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B.Tech.(CSE/IT) (Sem.-4)
MICROPROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING

Subject Code : BTCS-404

M.Code : 56607

Date of Examination : 07-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Explain the following :

- a. Asynchronous
- b. Data Bus
- c. DAD Instruction
- d. 2-byte Instruction
- e. Status Register
- f. Flags
- g. Operand
- h. RST2.5
- i. PUSH Instruction
- j. Emulator

SECTION-B

2. How traffic light systems can be controlled by microprocessor? Explain.
3. What is the use of DMA controller?
4. What do you understand by subroutine? Explain.
5. Describe serial and parallel data transfer techniques.
6. Write an assembly language program to swap two numbers.

SECTION-C

7. Discuss in detail the instruction formats and its types with example.
8. Draw and explain the working of 8251 USART in detail.
9. Explain, how stepper motor can be interfaced with 8085.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.