B.Sc. DEGREE EXAMINATION,APRIL 2020
II Year IV Semester
Microprocessors and its Applications

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Define Assembly language.
2. Give the block diagram of computer with microprocessor as CPU.
3. List the compare operations.
4. What are the applications of Rotate instructions?
5. Define counter and List the common application areas of counter.
6. Define stacks.
7. Write the steps for converting BCD to ASCII.
8. How is multiplication performed?
9. List the classifications of interrupts found in 8085 microprocessor.
10. Define Trap.
11. Perform BCD addition of 34 and 26. Give the steps.
12. What are the Data formats and codes used in 8-bit microprocessor?

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Write a note on Arithmetic and Branching operations.
14. Write a short note on dynamic debugging.
15. Discuss about time delay using a loop within a loop technique with flow chart.
16. Explain binary to BCD conversion with an example?
17. Briefly discuss RST instruction.
18. Explain in detail about looping and its types.
19. Discuss about subroutines.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Explain 8085 MPU with pin diagram.
21. Explain about Data transfer operations and its addressing modes.
22. Explain Modulo ten counter with flow chart and program.
23. Write a subroutine to perform decrement in BCD number.
24. Explain about Memory mapped I/O.

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