B.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year IV Semester
Core Major - Paper IV
MICROPROCESSORS AND ITS APPLICATIONS

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

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

Answer any **TEN** questions

1. Define Microprocessor.
2. What is a microcomputer?
3. Discuss Continuous Loop.
4. What is breakpoint?
5. Define Counters.
6. Define Stack.
7. Write a note on ADI instruction.
8. What is ASCII code?
9. Define Memory mapped I/O.
10. Define Interrupt.
11. What is meant by DMA?
12. Define Bit, Byte, Nibble and Word.

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

Answer any **FIVE** questions

13. Explain 8085 instruction Set.
14. Discuss the various addressing modes of 8085.
15. Write an assembly language program for Hexadecimal counter.
16. Write an assembly language program for BCD to binary conversion
17. Explain Direct I/O in short.
18. Explain data transfer instructions.
19. List out various conditional Call and Return instructions and explain their purpose.

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

Answer any **THREE** questions

20. Explain 8085 Microprocessor Architecture with a neat diagram.
21. Explain the various arithmetic instructions of 8085.
22. Discuss subroutine in detail.
23. Explain BCD addition and subtraction.
24. Explain in detail multiple interrupt.

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