No. of Printed Pages : **2**

21BSC5C6ELL

Sl. No.

B.Sc. V Semester Degree Examination, April/May - 2024

ELECTRONICS

DSC - 6 : Digital Circuits and Microprocessors

(NEP)

Time : 2 Hours | Maximum Marks : 60

Note : *Answer* ***all*** *sections.*

SECTION - A

1. Answer **all** sub-questions. **10x1=10**

(a) What is shift register ?

(b) Expand EPROM.

(c) What is D/A converter ?

(d) What is Assembly language ?

(e) What is flow chart ?

(f) What is Asynchronans counter ?

(g) What is PPI and USART ?

(h) What is MVI B, 82 Instructions ?

(i) Expand DVD and CCD.

(j) ROM timing in memory device.

SECTION - B

Answer **any four** questions. **4x5=20**

2. Explain the working of 1 to 16 demultiplexer.

3. Write a note on Basic memory cell.

P.T.O.

4. Explain the general purpose registers in 8085 microprocessor.

5. Write a note on Branch instructors in 8085 microprocessor.

6. Write a note on two byte instructions in 8085.

7. Write a note on integration type A/D converter.

SECTION - C

Answer **any three** questions. **3x10=30**

8. With neat logic diagram explain the working of 3-bit ripple counter along with truthtable and timing diagram.

9. Explain the working of successive approximation A to D converter.

10. With neat block diagram explain 8085 architecture.

11. Explain the addressing modes of 8085 Microprocessor.

12. Write an assembly level program to transfer data from memory location 8065 to memory location 8089 and store data in 8092 location.

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