

Total No. of Printed Pages: 2

SUBJECT CODE NO: - Y-2081
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (PATTERN-2013) (T.Y SEM V)
Examination April / May - 2024
Electronics Paper- XVI Micro Controller - I

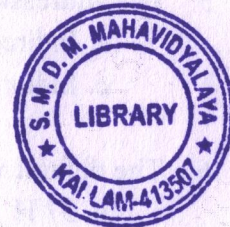
[Time: 1:30 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions.
- 2) All questions carry equal marks.
- 3) Use only blue or black pen.
- 4) Draw flow chart/ Diagram whenever necessary.

**Q.1 Attempt any one.**

- | | |
|---|----|
| (a) Explain general functional block diagram of MCS51 microcontroller | 10 |
| (b) Explain CISC and RISC processor. | 10 |

Q.2 Attempt any one.

- | | |
|------------------------------------|----|
| (a) Write 8051 addressing modes. | 10 |
| (b) Write arithmetic instructions. | 10 |

Q.3 Attempt any one.

- | | |
|---|----|
| (a) Explain with neat diagram timers and counters. | 10 |
| (b) Write application of MCS51 as pulse generation. | 10 |

Q.4 Write short notes on any two.

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|---------------------------------|---|
| (a) Immediate addressing | 5 |
| (b) Logical instruction | 5 |
| (c) ALP to generate square wave | 5 |
| (d) Interrupts in MCS51 | 5 |

Q.5 Attempt the following 10 multiple choice questions.

10

1. 8051 series has _____ 16 bit resistors.

a. 2	b. 3	c. 1	d. 0
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2. MCS-51 microcontroller is _____ pin IC.

a. 4	b. 12	c. 20	d. 40
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3. PSEN full form _____ ?

a. Program storage enable	b. Point storage enable
c. Plaint storage enable	d. None of these

