

20/7/21
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M Sc DEGREE (CSS) EXAMINATION, JULY 2021

Fourth Semester

Faculty of Science

M Sc PHYSICS

Elective - PH800402 - MICRO ELECTRONICS AND SEMICONDUCTOR DEVICES

2019 Admission Onwards

F930D8CB

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

Answer any **eight** questions.

Weight **1** each.

1. What do you mean by direct mapping?
2. Draw programming model of 8085 .
- 3. Differentiate the instructions JMP and JC.
- 4. Mention the addressing modes of the following 8086 instructions. (i) MOV AL, DISP[AX] (ii) MOV AH, DISP [BX][SI]
- 5. What are the functions performed by logical instructions in 8086 microprocessor? Give an example and explain?
- 6. What you mean by an embedded system ?
- 7. What is the condition that a clock frequency of a microcontroller to be a standard one?
- 8. How can we estimate the timer frequency of a microcontroller?
9. Explain the masking and etching process.
10. How are the various areas of the chip electrically isolated from each other?

Part B (Short Essay/Problems)

Answer any **six** questions.

Weight **2** each.

(8×1=8 weightage)

11. State the components of microcomputer system and explain the functioning of each.
- ✓ 12. What are the functional parts of 8086 CPU?

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