

**MSCCS-08**

December - Examination 2016

**MSCCS (Final) Examination****Computer Architecture and Micro Processors****Paper - MSCCS-08****Time : 3 Hours ]****[ Max. Marks :- 100**

**Note:** The question paper is divided into three sections A, B and C. Write answers as per given instructions.

**Section - A****10 × 2 = 20**

(Very Short Answer Questions)

**Note:** Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) Define computer architecture.
- (ii) What do you mean by data representation?
- (iii) What do you understand by instruction format?
- (iv) Define interrupt.
- (v) What do you understand by arithmetic logical unit?
- (vi) Why macro is used in the system?
- (vii) Define microcontroller.

- (viii) What is function of control unit?
- (ix) Define assembler.
- (x) What do you understand by data path?

**Section - B****4 × 10 = 40**

(Short Answer Questions)

**Note:** Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Explain memory mapped I/O scheme and I/O mapped I/O scheme.
- 3) Describe steps involved in program execution by CPU.
- 4) Discuss the various types of data transfer operations available in 8085.
- 5) What do you understand by instruction pipelining? Explain.
- 6) Write the differences between machine level and assembly level language.
- 7) What do you understand by memory technology? Explain.
- 8) What are the applications and advantages of microprogramming?
- 9) Discuss the programming model of 8085.

**Section - C****2 × 20 = 40**

(Long Answer Questions)

**Note:** Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) What are the various types of buses in 8085? Explain.
  - 11) Explain the RISC pipelining.
  - 12) Explain the fixed point arithmetic with suitable example.
  - 13) Draw and explain the pin out diagram of 8086.
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