

MSC-CS - 08

December - Examination 2015

MSC-CS Examination**Computer Architecture and Micro Processors****Paper - MSC-CS - 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 x 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) What are main components of CPU?
- (ii) 32MB size of memory has _____ address lines.
- (iii) Define parallel processing.
- (iv) Define control bus.

- (v) What is the assembler?
- (vi) What do you understand by interrupt?
- (vii) How many address lines and data lines in 8086?
- (viii) What are memory device characteristics?
- (ix) Define term microcontroller.
- (x) What do you understand by dual core processor?

Section - B

4 x 10 = 40

(Short Answer Questions)

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

- 2) Describe the RISC characteristics.
- 3) Discuss about stack organization.
- 4) Explain various representations of data in computer.
- 5) What do you understand by random-access memories? Explain.
- 6) Discuss the PCI (Peripheral Component Interconnect).
- 7) Explain CPU structure and functions.
- 8) How micro-programmed control unit is designed?
- 9) Explain instruction cycle.

Section - C

2 x 20 = 40

(Long Answer Questions)

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

- 10) What do you understand by pipelining? Explain arithmetic pipeline with an example.
- 11) Describe the various types of external memory.
- 12) Explain various data transfer scheme between I/O devices and 8085.
- 13) Draw and explain basic architecture of 8088.
