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Register Number:

Name of the Candidate:

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## M.C.A. DEGREE EXAMINATION, 2009

(SECOND SEMESTER)

(PAPER - XI)

## 241. COMPUTER ARCHITECTURE AND MICROPROCESSORS

(New Regulations)

December Time: 3 Hours

Maximum: 100 Marks

**SECTION** - **A**  $(8 \times 5 = 40)$ 

Answer any EIGHT questions.

All questions carry equal marks.

- 1. Differentiate an interpreter from a compiler.
- 2. Explain 2's complement.
- 3. Write short notes on Registers.
- 4. Explain the use of decoder and multiplexer.

**Turn Over** 

2

3

- 5. Write a program to multiply two positive numbers.
- 6. Explain Program Loop.
- 7. Write notes on Binary Counters.
- 8. Explain Stack Operations.
- 9. Explain serial I/O communication.
- 10. Explain keyboard display 8279.

**SECTION** - **B** 
$$(3 \times 20 = 60)$$

Answer any THREE questions.
All questions carry equal marks.

- 11. Explain the following:
  - (a) Boolean algebra.

(10)

(b) Logic circuits.

(10)

- 12. Explain the following:
  - (a) Types of Buses.

(10)

(b) Types of ROM.

(10)

- (a) Addressing Modes. (10)
- (b) Instruction Format of a computer.

(10)

14. Explain the following:

13. Describe the following:

- (a) Subroutine. (10)
- (b) Digital clock. (10)
- 15. Discuss any two microprocessor applications in detail. (10+10)