

**Roll No. ....**

**Total No. of Questions : 07**

**Total No. of Pages : 02**

**BCA (Sem.-3rd)**

**COMPUTER SYSTEM ARCHITECTURE**

**Subject Code : BC-403**

**Paper ID : [B0226]**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY.**
- 2. Attempt any FOUR questions from SECTION-B.**

**SECTION-A**

**(10 × 2 = 20 Marks)**

1. Write a short note on :

- (a) What is meant by operation code?
- (b) Discuss the use of general purpose register.
- (c) List the different addressing modes.
- (d) What is meant by instruction format?
- (e) What is the role of I/O ports?
- (f) Discuss the memory reference instruction.
- (g) What is need of cache memory?
- (h) How memory mapping is carried out?
- (i) What is meant by 8 bit microprocessor?
- (j) How timing and control is useful?

**SECTION-B**

**(4 × 10 = 40 Marks)**

2. What are the different types of computer registers? Discuss their functions.

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3. Discuss the following types of CPU organization :

(a) Stack Organization

(b) I/O organization

4. How transfer of information between CPU and I/O devices is carried out? Explain.

5. What is meant by memory hierarchy? Discuss the role of different types of memories.

6. Discuss the different types of instructions format with examples.

7. Write short notes on the following :

(a) Instruction Cycle

(b) I/O Architecture