4. a) Explain different types of ROMs with its purpose

**OR**

 b) Explain the basic structure and general register organization of

 CPU?

5.a) What are micro-operations? Explain the types of

 micro-operations

**OR**

 b) Write a short note on ALU and control unit organization

6. a) Draw and discuss the block diagram of 8060 micro-processor?

**OR**

 b) Discuss about the Motorola 68000 micro-processor?

 [54/416]

**[Dec-16]**

 **[SDDCA-104]**

**DCA EXAMINATION**

**INTRODUCTION TO COMPUTER ORGANIZATION**

(Effective for the admitted batch 2009-10)

**Time: 3 Hours Max.Marks: 70**

------------------------------------------------------------------------------------------**Instructions:** All parts of the section must be answered in one place only.

 Figures in the right hand margin indicate marks allotted.

------------------------------------------------------------------------------------------

**SECTION-A**

1. Answer any **Four** of the following (4x5=20)

 a) What is Alpha-numeric Representation?

 b) Error detection & correction codes

 c) Types of high speed memories

 d) Characteristics of Instruction set

 e) Input/output techniques

 f) CPU components

 g) Fundamentals of assembly language

**SECTION-B**

Answer all questions: (5x10=50)

2. a) Evolution fo computers in the global era discuss it?

**OR**

 b) Simplify the following Boolean expressions using K-map:

 f (A,B,C,D) = (0, 2, 4, 6, 8, 10, 12, 14, 15)

3. a) Write the difference between Random Access Memory and Direct

 Memory?

**OR**

 b) Explain how data transfer is done using DMA?

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