

**Printing Page(s) : 1**

**Paper Code :DCS-216**

**Roll No.**

**ADCA-11**

**2<sup>nd</sup> Year Examination, Academic Batch 2016-17**

**Computer Organization**

*Time : 3 Hours ]*

*[ Max. Marks : 100*

*Note. Attempt any **Five** questions. All questions carry equal marks.*

Q1. a) Explain in detail all the types of Adders and Subtractors? How a full adder is built using half adder

b) Explain all type of counters with their block diagram.

Q2. a) Explain the role of fetch, decode and execution in instruction cycle. Draw the flow chart.

b) Explain Micro programmed and hard wired control unit. Draw the block diagram of control unit.

Q3. Explain in detail about

a) Auxiliary memory

b) Associative memory

Q4. Explain the functional diagram of 16- bit Micro processor (8086).

Q.5.Draw and explain the working of a circulating registers or ringing counter with the help of timing diagram?

Q.6. Write a short note on the following:

a. Programmable counter

b. Shift Register

Q.7. What are the different types of instructions? Is there any impact of addressing modes in instruction set design of a machine?

Q.8. Write short note on the data manipulation instructions?