## SARDAR PATEL UNIVERSITY
## F.Y.B.B.A. (ISM) SEM - I EXAMINATION
### 2013
### Saturday, 16th November
### 02.30 p.m. to 04.30 p.m.
### LOGICAL ORGRANIZATION OF COMPUTER –I: UM01CBBS02

Maximum Marks: 60

**Q.1**

A. Explain Block Diagram of Computer in detail. (6)
B. Explain 2's Complement method. (5)
C. What do you mean by Error detection code? (4)

OR

**Q.1**

A. Explain different functions of Computer in detail (6)
B. Explain 1's Complement method. (5)
C. What do you mean by signed magnitude method? (4)

**Q.2**

A. What is Truth table? Explain AND and OR Gates with example. (7)
B. Explain Karnaugh Map for 3 variables in detail. (8)

OR

**Q.2**

A. What is Truth table? Explain NAND and NOR Gates with example. (6)
B. What is Boolean Algebra? List and explain laws of Boolean Algebra. (5)
C. Explain De Morgan's Theorem in detail. (4)

**Q.3**

A. Explain the following:
  1. Instruction Execution Cycle for CPU (7)
  2. Data path of a typical Von-Neuman machine parallel (8)

OR

**Q.3**

A. Explain the following:
  1. Array Processors (7)
  2. Processor function and its components (8)

**Q.4**

A. List the types of Memory Systems for Microcomputer and explain ROM in detail. (6)
B. Explain the concept of Hard Disc. (4)
C. List out various input output devices and explain Keyboard in detail. (5)

OR

**Q.4**

A. List the types of Memory Systems for Microcomputer and explain RAM in detail. (6)
B. Explain the concept of CD-ROM. (4)
C. List out various input output devices and explain Printer in detail. (5)

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