

(4) Seat No.: \_\_\_\_\_

No. of printed Pages: 1

**SARDAR PATEL UNIVERSITY**  
**BBA-ITM (SEM-1) External Examination (NC)**  
**Wednesday, 15<sup>th</sup> March 2017**  
**UM01EBBI05 - Computer Organization**

Time: 2:00p.m to 4:00p.m

Marks: 60

- Q.1 A Do as directed. [05]  
 1.  $(1011101101)_2 = (?)_{16}$   
 2.  $(A67F1)_{16} = (?)_{10}$

- B Explain Binary Number system and Hexadecimal Number System with example. [10]

OR

- Q.1 A Construct Even Parity hamming code for "A", where ASCII value for A = 65 [05]

- B Explain Octal Number system and Decimal Number System with example. [10]

- Q.2 A Explain the following gates with diagram and truth table. [12]  
 1. AND 2. XNOR  
 3. Bubbled AND 4. NOT

- B Explain De Morgan's Theorems. [03]

OR

- Q.2 A Explain the following gates with diagram and truth table. [12]  
 1. OR 2. XOR  
 3. Bubbled OR 4. NAND

- B Define following. [03]  
 1. Gates 2. Boolean algebra  
 3. Truth Tables

- Q.3 A Write a short note on data path of typical Von-Nuemann machine. [05]

- B Explain Pipeline Machine and Multifunctional unit with diagram. [10]

OR

- Q.3 A Define Instruction Register and Program counter. And List out the step of Instruction Execution cycle. [05]

- B What is Addressing? Write a short note on Direct Addressing, Indirect Addressing and Register Addressing. [10]

- Q.4 A Explain CD-ROM with Advantages and disadvantages. [05]

- B Write a Short note on Hard disk. Write difference between Hard disk and floppy disk. [10]

OR

- Q.4 A List input devices and Write a short note on Keyboard. [05]

- B Define Printer. Explain Line Printer and Laser Printer. [10]