

**SARDAR PATEL UNIVERSITY**  
**FYBBA-ITM First Semester EXAMINATION CBCS (3 Years)**  
**19/11/2016 (Saturday)**  
**Computer Organization (UM01EBBI05)**

Time: 10.00 am – 12.00 pm

Total Marks: 60

- Q.1**  
(A) Explain advantages of Positional Number System. Explain Binary Number System by taking appropriate example. [7]  
(B) Write a short note on ASCII code. [8]
- OR**
- Q.1**  
(A) Represent the number  $(-67)_{10}$  by using Signed and Magnitude, 1's complement storage representation and 2's complement storage representation method. [7]  
(B) Explain Hamming code. Generate Hamming Code for the Character 'M' by using even parity bit method. [8]
- Q.2**  
(A) Explain DE MORGAN's Second Theorem and Bubbled OR Gate. [7]  
(B) What is Boolean Algebra? Explain logical addition, logical multiplication and operator precedence. [8]
- OR**
- Q.2**  
(A) Explain the Postulates of Boolean Algebra. [7]  
(B) Explain NOT, OR, XOR, NAND Gate in Details. [8]
- Q.3**  
(A) Write a short note on Functioning of a processor of Hypothetical Computer (HYPCOM). [7]  
(B) Write a short not on evaluation of expression by using Stack Addressing by taking appropriate example. [8]
- OR**
- Q.3**  
(A) Write a Short note on Data path of Typical Von-Neumann Machine. [7]  
(B) What is addressing? Explain Direct Addressing. [8]
- Q.4**  
(A) Write a short note on KEYBOARD and SCANNER. [7]  
(B) Write a short note on Hard Disk. [8]
- OR**
- Q.4**  
(A) Write a short note on CDROM. [7]  
(B) Explain Inkjet Printer in detail. [8]

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\*\*\*\*\* All the Best \*\*\*\*\*