

**SARDAR PATEL UNIVERSITY**  
**FY BBA (ITM) SEM-I (NC) EXAMINATION CBCS (3 YEARS)**  
**Monday, 18<sup>th</sup> April, 2016**  
**Computer Organization**  
**UM01EBBI05**

Time: 02:30 P.M to 04:30 P.M

Marks: -60

**Note: - 1) Figures to the right hand side of the question indicate their marks.**  
**2) Draw diagrams and give examples wherever necessary.**

- Q.1(a)** Write a short note on Hamming code by giving proper example. 09
- (b)** Solve the following problems: - 06
- a)  $(1010011011101111)_2 \rightarrow (?)_{16}$
- b)  $(134)_8 \rightarrow (?)_{10}$
- c)  $(1ABC)_{16} \rightarrow (?)_8$
- OR**
- Q.1(a)** Explain the binary number system, decimal number system and hexadecimal number system. 09
- (b)** Write a short note on UNICODE. 06
- Q.2(a)** Describe the De-Morgan's First Theorem. 07
- (b)** Explain AND, OR, NOT and NAND gate with diagram. 08
- OR**
- Q.2(a)** Describe the postulates of Boolean Algebra. 07
- (b)** Write a short note on addressing. Explain direct, indirect and register addressing in detail. 08
- Q.3(a)** Write a short note on data path of a typical Von-Neumann machine. 06
- (b)** Explain Pipeline Machine and Multifunctional units with proper diagram. 09
- OR**
- Q.3(a)** List out the steps of Instruction Execution cycle. 06
- (b)** Write a short note on addressing. Explain direct, indirect and register addressing. 09
- Q.4(a)** Write a short note on Hard disk. 07
- (b)** Define Printer. Explain line and laser printer in detail. 08
- OR**
- Q.4(a)** Introduce CD-ROM. Write down the advantages and disadvantages of CD-Rom. 07
- (b)** Describe the term MICR and Barcode Reader. 08

@@@@@ Best of Luck @@@@@