SC-1

SARDAR PATEL UNIVERSITY
FY BBA (ITM) SEM-I (NC) EXAMINATION CBCS (3 YEARS)
Monday, 18th 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* @@@@@