(4) Seat No.:_____   No. of Printed Pages : 1

SARDAR PATEL UNIVERSITY
BBA(ISM) -1ˢᵗ SEM Examination (NC)
Logical Organization Of Computers (UM01CBBS02)
Date: 14/03/2017, Tuesday
Time: 2 .00 P.M TO 4:00 P.M

Total Marks: 60

Q-1 [A] Explain Block Diagram of a simple Computer and its different functional units.   [07]

[B] Convert following number System   [08]

   i) $(AF8)_{16}$ = (?)$_8$ ii) $(10110110)_2$ = (?)$_{10}$

   iii) $(25)_8$ = (?)$_{10}$ iv) $(157)_8$ = ( )$_{16}$

OR

Q-1 [A] Explain Signed Magnitude, 1's Complement & 2's Complement?   [07]

[B] Explain Hamming code method & Number System with suitable examples. [08]

Q-2 [A] What is Boolean algebra? Explain in brief postulates of Boolean Algebra. [07]

[B] Prove the D'Morgan's theorem by method of perfect induction.   [08]

OR

Q-2 [A] What is the difference between i) **OR and XOR** Gates

                 ii)**AND and NOT** Gates

   in detail with **Circuit diagram & Truth table.**   [07]

[B] Prove the following theorem   i) $X + X.y = X$ $X \cdot (x + y) = X$ [08]

                 ii) $\overline{\overline{A}} = A$

Q-3 [A] Explain in detail processor function with diagram?   [07]

[B] Explain Instruction level parallelism in detail with diagram..   [08]

OR

Q-3 [A] Explain Processor level parallelism in detail with diagram.   [07]

[B] What is the difference between Arithmetic Logic Unit & Registers.   [08]

Q-4 [A] Explain ROM ,RAM,PROM, and EROM in detail.   [07]

[B] What is the difference between Dot-Matrix printer and Ink-Jet Printer.   [08]

OR

Q-4 [A] What is MOUSE? Explain different types of MOUSE.   [07]

[B] Explain in detail : i) Hard - Disk   ii) Scanners   [08]

BEST OF LUCK

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