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No. of Printed Pages : 1

Total No. Of Printed Page : 01

**SARDAR PATEL UNIVERSITY****BBA ITM (3 YEARS) SEM : I EXAMINATION 2017****UM01EBBI05 COMPUTER ORGANIZATION****DATE : 11/11/2017**

Saturday

**TIME : 02.00 P.M TO 04.00 P.M****TOTAL MARKS : 60**

**Q.1 [A]** List out various number system. Explain Binary and Hexadecimal number system in detail with example. **[08]**

**[B]** Explain concept of hamming code in detail with appropriate example. **[07]**

**OR**

**Q.1 [A]** Solve the following problems: **[08]**

1.  $(1100101)_2 = (?)_{10}$

2.  $(DFD)_{16} = (?)_8$

3.  $(306.11)_8 = (?)_{10}$

4.  $(30.125)_{10} = (?)_8$

**[B]** Discuss Excess Notation Method with appropriate example. **[07]**

**Q.2 [A]** Explain OR and XNOR Gates. **[08]**

**[B]** Write note on : De Morgan's theorems **[07]**

**OR**

**Q.2 [A]** Explain AND gate and NOR gate in detail. **[08]**

**[B]** Simplify the Boolean expression and draw circuit for :  $ABC' + ABC + A'BC$  **[07]**

**Q.3 [A]** Write a note on components of CPU. **[08]**

**[B]** List and explain steps for instruction execution cycle. **[07]**

**OR**

**Q.3 [A]** Discuss multiprocessor and pipeline machine in detail. **[08]**

**[B]** Explain data path cycle of Von Neumann Machine **[07]**

**Q.4 [A]** Write a note on : KEYBOARD and MOUSE **[08]**

**[B]** Write a note on CD-ROM. **[07]**

**OR**

**Q.4 [A]** Write a note on : Inkjet printer and VDU **[08]**

**[B]** Explain scanner in detail. **[07]**

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