

SEAT NO. _____

[132]

No. of Printed Pages : 01

SARDAR PATEL UNIVERSITY

BBA(ISM) Examination (I Semester)

Wednesday, 24th October 2018

02.00 P.M. – 04.00 P.M.

LOGICAL ORGANIZATION OF COMPUTER (UM01CBBS22)

Total Marks: 60

- Q-1 A Draw the block diagram of simple computer and explain its various functional units. [7]
B Do as Directed: [8]
1. Find 2's complement of $(11100011)_2$
 2. $(110011)_2 + (101010)_2 = (?)_2$
 3. Convert Binary code to Octal Code. $(1011001)_2 \rightarrow (?)_8$
 4. What is Error?
- OR
- Q-1 A List and explain all number system available in computer in detail. [8]
B Write note on ASCII and EBCDIC Character Representation methods. [7]
- Q-2 A Explain the following Gates with truth table and circuit. [8]
1) AND 2) NOR 3) NOT 4) NAND
B Simplify $F(A,B,C,D) = \sum m(1,2,5,6,8,9,11,15)$ using k-map. [5]
C Simplify $A'B + B'C + AC'$ with using Circuit. [2]
- OR
- Q-2 A Explain the following gets with truth table and circuit. [8]
1) OR 2) XOR 3) XNOR 4) NOR
B Simplify $F(A,B,C,D) = \sum m(1,2,5,6,8,11,12,15)$ using k-map [5]
C Simplify $A'B + C'D + AB + CD$ with using Boolean algebra laws. [2]
- Q-3 A Draw and explain Instruction Execution Cycle of computer. [7]
B Draw and explain the von Neumann computer Model in detail. [8]
- OR
- Q-3 A List and explain function and components of Computer Processor in detail. [8]
B Write a note on Array Processor and Multi-Processors. [7]
- Q-4 A What is Input Device? Explain the various Input Devices in detail. [10]
B Write note on Floppy disk and Hard Disk. [5]
- OR
- Q-4 A What is Output Device? Explain the various Output Devices in detail. [10]
B Write note on RAM and ROM. [5]

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