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## SARDAR PATEL UNIVERSITY

## First Year BBA (ISM) (Sem-I) EXAMINATION DATE: 10/11/2017, Friday

TIME: 02:00p.m to 04:00p.m UM01CBBS02: Logical Organization of Computer

	Total Marks:	60
Note:	All the questions are compulsory. Figures to the right indicate marks.	
	3. Start a new question from a new page.	
Q.1	Do as Directed:	[4 <b>6</b> ]
a.	Do as Directed: 1. $43.4_0 = (?)_D = (?)_H = (?)_B$	[15]
	2. Represent ISM using ASCII code	
!	3. Represent 15 <sub>D</sub> using Excess 128 notation	
:	4. 89 <sub>D</sub> – 11011 <sub>B</sub> using 1's Compliment method	
	5. 1110 <sub>B</sub> -10110 <sub>B</sub> using 2's Complement method	
	OR	
a.	Write a note on Block diagram of a simple computer and explain its various	[07]
	functional units.	
b.	Write a note on ASCII and EBCDIC Character Representation methods.	[80]
Q.2	MATERIA CONTRACTOR MANIPACIONES CONTRACTOR C	FO 63
a. L	Write a note on NAND gate giving the gate diagram and truth table for 3-input.	[05]
b.	Explain the De Morgan's First Theorem.	[05]
C.	Draw the circuit for the equation and also reduce the equation:	[05]
	A.B + A'.B + A.B' + A.B OR	
a.	Write a note on NOR gate giving the gate diagram and truth table for 3-input.	[05]
b. ,	Prove that: $A(A + B) + (B + AA)(A + B) = A+B$ using Truth Tables method.	[05]
c.	Simplify this using k-map $F(A,B,C)=\sum (1,3,5,6)$	[05]
Q.3		
a.	Write a note on the data path of a typical Von-Neuman machine.	[07]
b.	Write a note on Multi-Processors and Array Processors.	[08]
_	OR	ピハマス
a.	Write a note on Pipelining machines and Multifunctional Units.	[07]
b.	Write a note on Instruction Execution Cycle of a computer.	[80]
Q.4		
a.	What is a Floppy Disk? Write a note on Construction and Storage of data on a	[05]
	Floppy Diskette.	1003
b.	What is an Input device? Explain any one of the Input devices.	[05]
c.	Write a note on RAM. How does it differ from ROM?	[05]
	OR	
a.	What is a Hard Disk Drive? Write a note on Construction and Storage of data on a	[05]
	Hard Disk Drive.	,
b.	What is an Output device? Explain any one of the Output devices.	[05]
C.	Write a note on ROM. How does it differ from RAM?	[05]