V.P. & R.P.T.P. SCIENCE COLLEGE S.Y.B.Sc. (SEMESTER – III) INTERNAL TEST: OCT-2017

US03ECSC01: Digital Computer Electronics TIME: 03:00pm to 04:00pm

MARKS: 25

DATE: 07/10/2017	
Q.1 Multiple Choice Question	[03]
1 Invert gate has only input and output. A. Two, One B. One, Two C. One, One D. None	R.T.P. Science
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3. A is a memory element that stores a binary digit. A. binary adder B. decoder C. multiplexer D. flip-flop	V. Nagat
Q.2 Answer the following in short (Any two)	[04]
 Explain Associative Law. Define comparator in short. Explain Half-Adder in short. 	
Q.3 Explain AND, NOR, NAND with diagram and Truth table. OR	[06]
Q.3 Explain De'morgan first and second theorem.	[06]
Q.4 Define encoder. Explain 8x3 encoder in detail.	[06]
OR	
Q.4 Define decoder. Explain 3x8 decoder in detail.	[06]
Q.5 Explain 4x1 multiplexer in detail.	[06]
OR	
Q.5 Explain binary adder-subtractor (1's Complement adder-subtractor	[06]