

ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian Minority Institution

WORKSHEET -19(ANSWER KEY)

<u>Topic – Serial and Parallel Registers</u>

Subject: COMPU	TER SCIENCE Class - 12	F.M:15
Chapter: Sequent	tial Logic Circuits	Date: 23/06/2020
Choose the	correct answer for each question:	[15 X 1 = 15]
1.	What is the bit storage binary information capacity of any flip a. 1 bit b. 2 bits c. 16 bits d. infinite bits	-flop?
2.	A 4-bit shift register can be formed by connectingflip-fl flop stores a single bit of data. a. One b. Two c. Four d. Eight	ops where each flip
3.	Based on how binary information is entered or shifted out, she classified into categories. a. One b. Two c. Three d. Four	ift registers are
4.	The full form of SIPO is a. <u>Serial-in Parallel-out</u> b. Parallel-in Serial-out c. Serial-in Serial-out d. Serial-In Peripheral-Out	
5.	The full form of PISO is a. Serial-in Parallel-out b. Parallel-in Serial-out c. Serial-in Serial-out d. Serial-In Peripheral-Out	
6.	How can parallel data be taken out of a shift register simultan a. Use the Q output of the first FF b. Use the Q output of the last FF c. Tie all of the Q outputs together	eously?

d. Use the Q output of each FF

7.	Which type of shift register is renowned as 'bit bucket brigade circuit' by presenting the input data and applying the clock pulse for the movement of bits across the storage elements? a. Serial In - Serial Out (SISO) b. Serial In - Parallel Out (SIPO) c. Parallel In - Parallel Out (PIPO) d. Parallel In - Serial Out (PISO)
8.	What is/are the directional mode/s of shifting the binary information in a shift register? a. Up-Down b. <u>Left - Right</u> c. Front - Back d. All of the above
9.	Which time interval specifies the shifting of overall contents of the shift registers? a. Bit time b. Shift time c. Word time d. Code time
10	. The bit sequence 0010 is serially entered (right-most bit first) into a 4-bit parallel out shift register that is initially clear. What are the Q outputs after two clock pulses?
	a. 0000 b. 0010 c. <u>1000</u> d. 1111
11	 What is a shift register that will accept a parallel input, or a bidirectional serial load and internal shift features, called? a. Tristate b. End around c. <u>Universal</u> d. conversion
	 Shift registers are used for: a. Temporary data storage b. Data transfer c. Data manipulation d. All of the above
13	. A Parallel in Serial out shift register us used to convertdata to data. a. Parallel, serial b. Serial, Parallel c. Not possible d. None of the above

1/	The full form of SISO is
14.	a. Serial-in Parallel-out
	b. Parallel-in Serial-out
	c. <u>Serial-in Serial-out</u>
15	d. Serial-In Peripheral-Out
15.	A serial in/parallel out, 4-bit shift register initially contains all 1s. The data nibble
	0111 is waiting to enter. After four clock pulses, the register contains
	a.0000
	b. 1111
	c. <u>0111</u>
	d. 1000
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