

ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian Minority Institution

WORKSHEET -19

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

Subject: COMPL	UTER SCIENCE Class - 12	F.M:15
Chapter: Sequen	ntial 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 and a. 1 bit b. 2 bits c. 16 bits d. infinite bits	y flip-flop?
2.	A 4-bit shift register can be formed by connectingf flop stores a single bit of data. a. One b. Two c. Four d. Eight	lip-flops where each flip
3.	Based on how binary information is entered or shifted out classified into categories. a. One b. Two c. Three d. Four	ıt, shift registers are
4.	The full form of SIPO is a. Serial-in Parallel-out 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 sime 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	ultaneously?

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. Left - Right
	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
4.0	The bit are 2000 in a fall and a different bit (in the control of
10	I. 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. 1000 d. 1111
	u. IIII
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. Universal
	d. conversion
12	Shift registers are used for:
	a. Temporary data storage
	b. Data transfer
	c. Data manipulation
12	d. All of the above
13	S. 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

	14. The full form of SISO is
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	a. Serial-in Parallel-out
	b. Parallel-in Serial-out
	c. Serial-in Serial-out
	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. 0111
	d. 1000
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