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ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian Minority Institution

WORKSHEET -24

	<u> Topic – Ring Count</u>	er	
Subject: COMPUTER SCIENCE	Class - 12	F.M:15	
Chapter: Sequential Logic Circuits		Date: 29	/06/2020
Choose the correct answer for	or each question:	[15 >	(1 = 15]
 Ring counter is an example a) Synchronous counters b) Asynchronous counters c) True binary counters d) Synchronous and true binary 			
 A ring counter is a special t a) Parallel-in Parallel-out b) Parallel-in Serial-out c) Serial-in Serial-out d) Serial-in Parallel-out 	ype of application of th	e Shift registe	ır.
 Which among the following a) No. of states in Ring cou b) No. of states in Ring cou c) No. of states in Ring cou d) All of these 	nter > No. of flip-flop us nter = No. of flip-flop us	sed	
 4. What is the difference between a) There is no difference b) last flip flop outcome is c) last flip flop outcome is d) both (a) and (b) 	taken as the output in t	he shift register	
 5. The output of the first flip to as: a) Clock pulse b) Overriding input c) Preset 1 d) None of these 	flop is used to form the	ring in the ring counter and i	referred
 6. In a 4-bit ring counter, how a) one b) two c) four d) eight 			
7. What is the preset conditioa) All FFs set to 1b) All FFs cleared to 0	n for a ring shift counte	r?	

c) A single 0, the rest 1 d) A single 1, the rest 0 8. If a 10-bit ring counter has an initial state 1101000000, what is the state after the second clock pulse? a) 1101000000 b) 0011010000 c) 110000000 d) 000000000 9. The outcome of the flip-flop is passed to the flip-flop as an input. a) last, last b) first, first c) last, first d) none of these 10. The ring counter circulates the _____ bit(s) around the ring. a) one b) two c) four d) eight 11. The Overriding input is used as _____ and _____. a) clear, set b) clear, pre-set c) set, reset d) clear, clock 12. The Pre-set 1 is generated when: a) ORI is set to low, clk doesn't care b) ORI is set to high, low clock pulse signal is passed as the negative clock edge triggered c) both (a) and (b) d) none of these 13. We can convert a standard shift register circuit into a ring counter by: a) adding an extra flip-flop b) looping the output back to the input c) both (a) and (b) d) none of these 14. A 4-bit ring counter is also known as: a) mod-3 counter b) mod-4 counter c) mod-5 counter d) mod-8 counter 15. A mod-8 ring counter requires flip-flops. a) two b) four c) eight d) sixteen Phalguni Pramanik