ISL 37 - Digital Systems and Logic Design Lab Viva Questions	
Experiment 1.	 Explain the difference between binary and BCD
	 Use NOR gates to formulate XNOR Gate
	State the difference between SOP and POS
Experiment 2.	What are universal gates?
	 State De-Morgan's theorem for three variables
The control of the co	1+A=? ('A' can be a binary variable)
Experiment 3.	 Need of parity generator and checker
	 Assume you have 2-input OR gates but needed to implement
	a 4-input OR function. Show how to connect the gates to
	implement the 4-input requirement.
	Difference between odd parity and even parity
Experiment 4.	 What is the difference between mux and dmux
	 Implement an 16:1 mux using 4:1 mux
	 For a 16:1 multiplexer how many selection lines are there?
Experiment 5.	 What is the difference between combinational and sequential
	circuit
	 What advantage does a J-K Flip-flop have over an S-R?
	Derive the state diagram of JK, SR, T and D flip flop
Experiment 6.	 What is the difference between race around and toggling in
•	flip-flop
	 Differentiate between edge triggering and level triggering
	Derive the truth table of master and slave file flop
Experiment 7.	Draw the waveforms for each shift register for the input 1100
Experiment 8.	Design a ring counter using IK fin fine
	Design a Johnson counter using IK file floor
Experiment 9.	billetelice between synchronous and asynchronous asympton
LAP	The same of the sa
- 10	What is set and reset
Experiment 10.	Realize asynchronous counter using T flip-flop What is ripple counter
EXP	What is a decade counter?
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