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4.	a)	How to circuit.	gn a	com	bination	circui	t? Design	a Full A	dder 7
		_		_		_			

Draw and explain the working of monostable multivibrator.

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Define Fan-out and Figure of merit. Compare TTL, ECL and CMOS logic families.

What is Decoder? Explain how combinational circuits like full adder can be implemented with decoder.

Design a BCD to excess-3 code converter.

Design a MOD-5 counter. rgpvonline.com

Explain any one type of Analog to digital converter in detail.

b) What is shift register? Draw and explain shift left-right register.

Write a short notes on (any two): 14

PLA a)

Multiplexer

V-F converter

Encoder

CS-3003 (CBGS)

 $F(wxyz) = \Sigma(1, 3, 7, 11, 15)$

 $d(wxyz) = \Sigma(0, 2, 5)$