

- Q.5 The number of select lines for 16:1 MUX are _____
- a) 1 b) 4
c) 2 d) 3
- Q.6 When an inverter is placed between the inputs of SR flip, flop, than resulting flip flop is _____.
- a) T flip flop b) D flip flop
c) JK flip flop d) None of these
- Q.7 What is the maximum modulus of a counter with four number of flip flop?
- a) 4 b) 32
c) 8 d) 16
- Q.8 Shift register is a combination of _____
- a) Flip Flops b) Encoders
c) Decoders d) Counters
- Q.9 A four variable K-Map for SOP has _____ cells.
- a) 12 b) 32
c) 8 d) 16
- Q.10 In octal number system, there are _____ digits.
- a) 2 b) 16
c) 8 d) 4

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Ordinary electric's switch s a _____ device. (Analog / Digital)
- Q.12 One's complement of 11010101 is _____.
- Q.13 A full adder is having _____ inputs and _____ outputs.
- Q.14 A NOR gate is basically a _____ gate followed by _____ gate.
- Q.15 ALU stands for _____.
- Q.16 $A + 1 =$ _____.
- Q.17 SIPO stands for _____.
- Q.18 PLA stands for _____.
- Q.19 The number of select lines for 1:8 Demux ARE _____.
- Q.20 Draw the symbol of EX-NOR gate.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Differentiate between Analog signals and Digital signals.
- Q.22 Explain NAND gate as universal gate.
- Q.23 Explain EXOR gate with truth table.
- Q.24 Explain De Morgan's theorems.