

- Q.5 PLA consist of programmable _____ gates.
- a) AND b) OR
c) AND-OR d) None of the above
- Q.6 The class A machine also known as
- a) Mealy Machine b) Moore Machine
c) Finite State Machine d) None of the above
- Q.7 The modulus of a 4-bit counter is
- a) 10 b) 12
c) 16 d) 4
- Q.8 IC 74181 have pins
- a) 26 b) 28
c) 14 d) 24
- Q.9 According to distributive Law, which one of the following is correct
- a) $A \cdot (B + C) = (A \cdot B) + (A \cdot C)$
b) $A + (B \cdot C) = (A + B) \cdot (A + C)$
c) Both of the above
d) None of the above
- Q.10 The word length of the number that can perform by IC 74181
- a) 4 b) 5
c) 6 d) 8

SECTION-B

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

- Q.11 The number of gates in VLSI circuit are _____.
- Q.12 CMOS stands for _____.
- Q.13 Write the name of two methods of Analog to Digital converter.
- Q.14 FPGA stands for _____.
- Q.15 In EEPROM, the contents of the memory can be erased by _____.
- Q.16 How many cells are there in a three variable K-map?
- Q.17 Expand the term TTL
- Q.18 Write the full form of CCD
- Q.19 Symbol of JK flip flop.
- Q.20 Define Fuzzy Set.

SECTION-C

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

- Q.21 Define noise Margin and Noise Immunity.
- Q.22 How digital ICs are classified on the basis of packing density?
- Q.23 Write a short note on Tristate Buffer.
- Q.24 Explain any five characteristics of Analog to Digital Converter.