

SECTION-B

2. What is the necessity of Interfacing in digital ICs and what are the points to be kept in view, while interfacing between TTL gate and CMOS gate?
3. Explain the working of dual slope A/D converter.
4. Explain how Parallel in Serial out (PISO) shift register works.
5. Draw the circuit diagram of a mod-5 counter and convert it into decade counter.
6. With help of neat diagram explain working of R-2R ladder type DAC.

SECTION- C

7. Name and discuss the various types of semiconductor memories.
8. a) Design a circuit that will generate an even parity bit for 4 bit input and implement it using only NAND gates.
b) What is master slave J/K flip flop? Explain its working.
9. a) What is a BCD code? What are its advantages and disadvantages?
b) Describe with diagram internal architecture of PAL.