



CAT-2 Exam of Fall Semester- 2019-20

Programme Name & Branch: B.Tech.

Course Code & Name: MEE1037, Automotive Electronics Slot: E1+TE1

Class Number: VL2019201002022

Faulty Name: Dr. Ravi Verma General instruction(s): Missing data, if any, may be suitable assumed.

Answer all the questions

 $(5 \times 10 = 50 \text{ Marks})$

Exam Duration: 90 Mins.

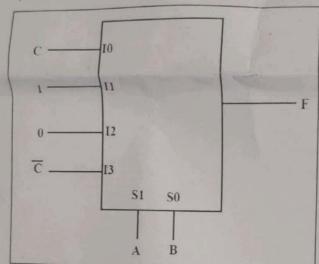
Maximum Marks: 50

Design the circuit diagram of full adder and full subtractor.

(ADB) (AB + BC + AC AR + BC + AC

2. Explain about the different types on interrupts in microprocessor?

Find the minimize expression for the multiplexer shown below?



Minimize the expression using K-Map,

 $F(A, B, C, D) = \sum_{i} m(0, 1, 4, 5, 8, 9, 13, 15).$

AT + BT + ABD

Design the circuit diagram and write truth table, excitation table, characteristics equation of SR flip flop, JK flip flop, D flip flop and T flip flop.

SELSKI