

Sheet (1)

- 1. What is the difference between BJT and FET?
- 2. With sketch state the difference between the depletion and enhancement types of MOSFET?
- 3. Compare between two types of:
 - a) J-FET and MOSFET.
 - b) N-Channel and P-Channel of Enhancement MOSFET.
 - c) N-Channel and P-Channel of Depletion MOSFET.
- 4. Explain with draw the operation of:
 - a) N-Channel Depletion MOSFET.
 - b) P-Channel Enhancement MOSFET.
- 5. Determine the following for the network of Fig.1.
- (a) I_{DQ} and V_{GSQ} .
- (b) V_{DS} .
- (c) V_D .
- (d) V_S .

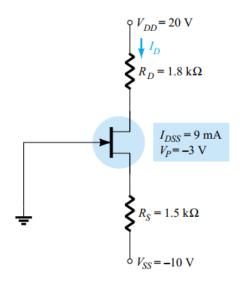


Fig.1

- 6. For the n-channel depletion-type MOSFET of Fig. 2, determine:
- (a) I_{DQ} and V_{GSQ} .
- (b) V_{DS} .

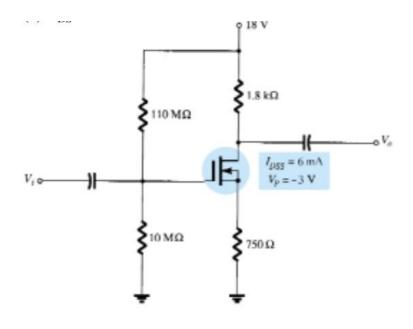


Fig.2.

- 7. Determine the following for the network of Fig. 3.
- (a) I_{DQ} and V_{GSQ} .
- (b) V_D .

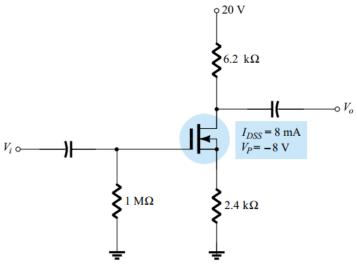


Fig. 3

8 .Determine I_{DQ} and V_{DSQ} for the enhancement-type MOSFET of Fig. 4.

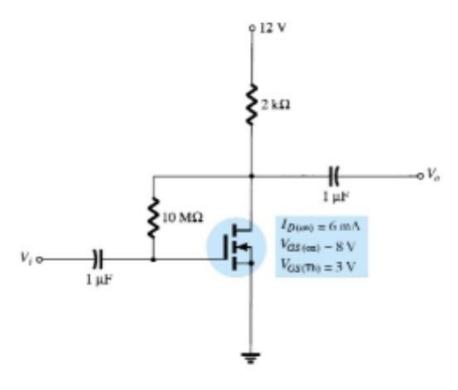


Fig 4.