

# Difference between BJT & FET

## BJT

① BJT has three terminals namely base, collector & emitter

② It is a bipolar device

③ Its working or operation depends on movement of  $e^-$  & holes both

It is current controlled device as  $I_c = f(I_B)$

## FET

① FET also has three terminals namely gate, source & drain

② It is a unipolar device

③ Its working or operation depends either on movement of  $e^-$  (n-channel FET) or on movement of holes (P-type FET)

④ It is voltage controlled device as  $I_D = f(V_{GS})$

## BJT

⑤ Input impedance of BJT is less

⑥ output impedance of BJT is high

⑦ It is cheaper

⑧ It is bigger in size than FET

⑨ It is more noisy

⑩ It has shorter life & less efficiency

## FET

⑤ Input impedance of FET is very high

⑥ output impedance of FET is low.

⑦ It is costly

⑧ It is smaller in size than BJT.

⑨ It is less noisy

⑩ It has longer life & high efficiency