

41 Lecture - PHY301

Important Mcqs

In which direction does the majority carrier flow in an NPN transistor?

- a) From the base to the emitter
- b) From the emitter to the base
- c) From the collector to the base
- d) From the base to the collector**

Answer: b) From the emitter to the base

In which direction does the minority carrier flow in an NPN transistor?

- a) From the base to the emitter
- b) From the emitter to the base
- c) From the collector to the base
- d) From the base to the collector

Answer: a) From the base to the emitter

In which direction does the majority carrier flow in a PNP transistor?

- a) From the base to the emitter
- b) From the emitter to the base
- c) From the collector to the base
- d) From the base to the collector

Answer: a) From the base to the emitter

In which direction does the minority carrier flow in a PNP transistor?

- a) From the base to the emitter
- b) From the emitter to the base

c) From the collector to the base

d) From the base to the collector

Answer: b) From the emitter to the base

In an NPN transistor, the direction of the base current is _____ the direction of the emitter current.

a) opposite to

b) same as

c) perpendicular to

d) unrelated to

Answer: a) opposite to

In a PNP transistor, the direction of the base current is _____ the direction of the emitter current.

a) opposite to

b) same as

c) perpendicular to

d) unrelated to

Answer: b) same as

In an NPN transistor, the direction of the collector current is _____ the direction of the emitter current.

a) opposite to

b) same as

c) perpendicular to

d) unrelated to

Answer: b) same as

In a PNP transistor, the direction of the collector current is _____ the direction of the emitter current.

a) opposite to

b) same as

c) perpendicular to

d) unrelated to

Answer: a) opposite to

In which region of operation of a BJT does the collector current depend on the base current?

a) Cut-off region

b) Active region

c) Saturation region

d) None of the above

Answer: b) Active region

In which region of operation of a BJT does the collector current saturate?

a) Cut-off region

b) Active region

c) Saturation region

d) None of the above

Answer: c) Saturation region