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

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) From the collector to the base

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