# 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