

ECAT Physics Chapter 16 Alternating Current Online Test

Sr	Questions	Answers Choice
1	For a n-p-n transistor, the conventional current equation can be written as	A. $I_E = I_C + I_B$ B. $I_C = I_B - I_E$ C. $I_C + I_B = I_E$ D. $I_B + I_E = I_C$
2	In a normally biased n-p-n transistor, an electron current flows from the	A. emitter into the base B. collector into the base C. base into collector D. none of these
3	In n-p-n transistor, emitter base junction is kept	A. reversed B. forward biased C. may be reversed or may be forward biased D. none of these
4	For normal operation of transistor, the batteries	A. V_{CC} is of much lower value than V_{BB} B. V_{CC} is of much higher value than V_{BB} C. V_{CC} is equal to V_{BB} D. none of these
5	For the normal operation of the transistor, its	A. emitter-base and collector base junctions are forward biased B. emitter-base junction is reversed biased and collector base junction is forward biased C. emitter-base junction is forward biased and collector-base junction is reverse biased D. any one of these
6	Which of the following has a great concentration of impurity	A. base B. emitter C. collector D. none of these
7	In a transistor, the central region is called	A. collector B. emitter C. base D. none of them
8	In a transistor, if the central region is n-type, then this type of transistor is known as	A. n-p-n transistor B. p-n-p transistor C. either of these D. none of these
9	In a transistor, if the central region is p-type then this type of transistor is known as	A. p-n-p transistor B. n-p-n transistor C. either of these D. none of these
10	Which of the following diodes can operate in the reverse biased condition	A. photo diode B. light emitting diode C. photo voltaic cell D. none of these
11	Which of the following diode is used to derive the current in external circuit when light is incident in the circuit	A. photo diode B. light emitting diode C. photo voltaic cell D. none of these
12	Which of the following diode is used for the detection of light	A. photo diode B. light emitting diode C. photo voltaic cell D. all of them
13	In which of the following diodes when an electron combines with a hole during the forward	A. photo diode B. light emitting diode

biasing, photon or visible light is emitted.

- C. photo voltaic cell
- D. all of them

14 In which of the following components, pn-junction is used

- A. light emitting diode
- B. photo diode
- C. photo voltaic cell
- D. all of these

15 The circuit which is used to smooth the output voltage of the full-wave rectification is known as

- A. transformer
- B. rectifier
- C. filter
- D. none of these