Q1/ Define the different operating regions of transistor.

Q2/ Define Transistor current.

 Q3/ What are the three types of configuration in transistors?

Q4/ Discuss about a Bipolar Junction Transistor (BJT), explain about its terminals, types, and mention which type is better? Justify your answer?

Q4/ Mention about the different configurations of a transistor?

Q6/ Explain about the Common Base configuration?

Q7/ Discuss about the characteristics of CB configuration?

Q8/ Mention about a transistor and explain why it is called so?

Q9/Explain the parameters α, β, γ in transistor. Give the relation between them?

Q10/ Give the comparison of common emitter, common base and common collector configurations?

Q11/Plot the input transistor current-voltage (I-V) characteristics of Common emitter (CE) circuit.

Q12/Define the connected configuration circuit, and determine mode of the operation

Q13/ In a pnp transistor, the current carriers are ………….

1. acceptor ions
2. donor ions
3. free electrons
4. holes

Q14/ The input impedance of a transistor is ………….

1. high
2. low
3. very high
4. almost zero

Q14/ The current IB is …………

1. electron current
2. hole current
3. donor ion current
4. acceptor ion current

Q15/ In a transistor ………………..

IC = IE + IB

IB = IC + IE

IE = IC – IB

IE  = IC + IB

Q16/ The value of α of a transistor is ……….

* more than 1
* less than 1
* 1
* none of the above

Q17/ IC = *αIE + ………….*

1. IB
2. ICEO
3. ICBO
4. βIB

Q18/ The output impedance of a transistor is ……………..

1. high
2. zero
3. low
4. very low

Q19/ In a tansistor, IC = 100 mA and IE = 100.2 mA. The value of β is …………

1. 100
2. 50
3. about 1
4. 200

Q20/ In a transistor if β = 100 and collector current is 10 mA, then  IE is …………

1. 100 mA
2. 100.1 mA
3. 110 mA
4. none of the above

Q21/ The relation between β and  α is …………..

1. β = 1 / (1 – α )
2. β = (1 – α ) / α
3. β = α / (1 – α )
4. β = α / (1 + α )

Q22/ The value of β for a transistor is generally ………………..

1. 1
2. less than 1
3. between 20 and 500
4. above 500