IMPORTANT QUESTION

1) Eplian working principle of NPN Transistor.

2) Explain Output Characterstics of CE confiugration, Q point and Dc load line.

3) Compare the different confiugration of transistor(CB,CE,CC)

4)How transistor work as a switch ?

4) How transistor work as an Amplifier

5) What do you mean by Thermal Runawy and stability Factor?

7)Why BJT is Bipolar But FET is unioolar?

8) Explain the working and characterstics of FET.

9) COMAPRISSION

A● BJT vs FET

B● FET vs MOSFET

10) What do you mean by Transistor Biasing ?

Write the Name of Different transistor Biasing.

11) Explain Potential divider /Voltage divider Biasing.

12) Explain the Construction of Working of Mosfet.

13). Define the following term

A◆ Bias Stablisation

B◆ Stability Factor

C◆Compensation Technique

4◆Pinch Voltge

Explain the construction of UJT and How it work as a relaxation oscillator?

Digital

1) Conversion from one another
like:⇒ Hexadecimal to another
Any No. System to Decimal

2) APPlication of Universal Gate
A) NAND B) NOR

3) Solⁿ of K-Map:⇒

4) Disign the diffrent Combinational ckt:⇒
A) A Halb Adder
B) Full Adder
C) Encoder
D) Decoder
E) MUX
F) DMUX

5) What do you mean by Flip Flop?
Explain SR Flip flop.
Explain Master-slave Flip flop.

6) What is Race around condition? & How it is Removed?

7) Explain BCD Counter?

8) Write difference between Combinational CKt, Sequential CKt.

9) What do you mean Register? Explaine different types of Register.

10) Explain R-2R ladder Type converter

11) Explain different type of ADC :⇒
A) Convel Type ADC
B) Dual Slope Convertor
C) Flash Type Convertor / Parallel Convertor.