**4 MARKS**

1.Describe in details about the inverting Amplifier ?

2.Describe in details about the non inverting Amplifier ?

3.Draw the diagram of crystal oscillator .

4.Difference between the FET and BJT

5.Derive the relationship between alpha, beta and gamma

6.Draw the diagram and Explain the construction of the N channel JFET

7.Explain in details about the peak detector with diagram

8.Draw the input and output Characteristics of CE amplifier ?

9.Draw the input and output Characteristics of CB amplifier ?

10.Explain working operation of NPN transistor

11.Explain working operation of PNP transistor

12.Mention the ideal characteristics of OP AMP

13.what is necessary to go with class AB power amplifier.

14.what are the advantages and disadvantages of class c power amplifier

15.Write short notes on peak detector

16.What is cross over distortion?

17. Compare CE,CB and CC configurations

18.Compare class A,B,C power amplifiers

19. What is positive and negative feedback? Explain the types of negative feedback

20.Draw the drain and transfer characteristics of JFET

21.Draw the input and output characteristics of the BJT and explain

22. Derive the efficiency of class A amplifier

23.Compare inverting and non inverting amplifier

24. With neat sketch explain, Negative feedback amplifiers

25. What is operational amplifier? Explain their ideal characteristics and parameters

26. What is the difference between oscillators and amplifiers? Explain an oscillator and amplifier circuit with their applications

27.Explain briefly the operations and applications of class A and class AB amplifier

28. With neat sketch explain, JFET configurations

29.Explain any two applications of operational amplifiers