Yashwantrao Chavan College of Science Karad

Department of Computer Science

Class B.Sc. Entire I Subject – Electronics

Paper Name – Electronics Devices and circuit II

Que 1) Long Answer

1) Explain Structure and working of JEFET

2) Explain I-V characteristics of and parameter of JEFET

3) Explain structure and working of N channel- MOSFET

4) Explain Characteristics and application of N channel- MOSFET

5) Explain classification of amplifier

6) Explain Class A and Class B amplifier based on frequency response and Q point

7) Explain Class AB and Class A amplifier based on frequency response and Q point

8) Explain Direct Coupled amplifier in detail

9) Explain RC coupled amplifier in detail

10) Explain RC phase shift oscillator

11) Explain LC Colpitt's oscillator

12) Explain crystal oscillator

13) Explain block diagram of operational amplifier

14) Explain ideal and practical characteristics of operational amplifier

15) Explain parameters of operational amplifier

16) Explain inverting amplifier with its output equation

17) Explain non- inverting amplifier with its output equation

18) Explain virtual concept of operational amplifier

19) Explain op- amp as a adder with its output equation

20) Explain op- amp as a subtractor with its output equation

21) Explain op amp as a integrator with its output equation

22) Explain op- amp as differentiator with its output equation

23) Explain op- amp as Comparator

24) Explain phase shift oscillator using op-amp

25) Explain working of half wave rectifier

26) Explain working of full wave rectifier

27) Explain working of bridge rectifier

28) Explain types of filter

29) Explain load and line regulation

30) Explain Zener as a voltage regulator

31) Explain 3 pin positive and negative voltage regulator

32) Explain SMPS

Que 2) Short answer questions

1) Explain parameters of operational amplifier

2) Explain FET as voltage variable resistance

3) Explain class A amplifier

4) Explain class B amplifier

5) Explain class AB amplifier

6) What is need of multistage amplifier

7) Draw the diagram for Direct amplifier

8) Draw the diagram for the RC coupled amplifier

9) Explain pin diagram of IC 741

10) Explain ideal characteristics of op- amp

11) Explain practical characteristics of op-amp

12) Explain parameters of op-amp

13) Explain any one application of op-amp

14) Draw the diagram and waveforms of half wave rectifier

15) Draw the diagram and waveforms of full wave rectifier

16) Draw the diagram and waveforms of bridge rectifier

17) Explain any one type of filter

18) Explain line regulation

19) Explain load regulation

20) Draw the diagram of SMPS