

Q.1 Multiple Choice Questions: (Any 3)

3 marks

(1) Which oscillator is suited to the range of frequency from few kilo hertz to few megahertz

- (i) Phase shift oscillator
- (ii) Crystal oscillator
- (iii) Wein Bridge oscillator

(2) Complementary symmetry amplifier uses

- (i) two npn transistor
- (ii) two pnp transistor
- (iii) one npn one pnp transistor

(3) 78XX is a ----- regulator IC

- (i) positive voltage
- (ii) negative voltage
- (iii) None of above



Q.2 Short Questions: (Any 2)

4 marks

1. State two differences Hartley oscillator and Colpitt's oscillator.
2. What is advantage of Class A Pushpull amplifier?
3. Draw circuit diagram of two transistor in Pushpull arrangement?
4. Draw block diagram of regulated power supply.

Q.3 Draw circuit diagram of crystal oscillator and explain it in detail.

6 marks

OR

Q.3 Draw the circuit diagram of Wein bridge oscillator and explain it in detail.

6 marks

Q.4 Obtain expression for power in case of large signal amplifier?

6 marks

OR

Q.4 Write short note on complementary symmetry amplifier.

6 marks

Q.5 Describe dc parameters of a regulator IC.

6 marks

OR

Q.5 Explain two applications of IC-723.

6 marks