Q.32 Explain RL as integrator circuits.

Q.33 What are essentials of oscillator?

Q.34 What is effect of removing by pass capacitor from CE transistor amplifier.

Q.35 Explain impedance matching in amplifiers

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain various diode clipping circuits

Q.37 Explain block diagram and working of 555 timer.

Q.38 Explain working of Push Pull amplifier & its advantages and disadvantages

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4th Sem / Elect, Power Station Engg., Elect. & Eltx. Engg.

Subject:- Electronics - II

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Complementary PUSH PULL amplifier uses:

a) Class A b) Class B

c) Class C d) None

Q.2 The material with a piezo electric effect is:

a) Quartz b) Silicon

c) GaAs d) Rochelle salt

Q.3 Emitter bypass capacitor _____ gain of an amplifier

a) Increases b) Decreases

c) Makes zero d) Makes 1

Q.4 Amplifiers uses _____ feedback

a) Positive b) Negative

c) Sinusoidal d) None

Q.5 Transformer coupling is an example of_____

a) Direct coupling b) AC coupling

c) DC coupling d) Impedance coupling

Q.6 When ambient temperature increases, the power rating of transistor_____:

a) Decreases b) Increases

c) Remain same d) None

Q.7 The collector efficiency of amplifier is maximum for:

a) Class A b) Class B

c) Class C d) Class AB

Q.8 A clamper circuit is known as:

a) Average circuit b) Dc resistor

c) Ac resistor d) Inverter

Q.9 Output waveform of 555 timer is:

a) Sine b) triangular

c) Rectangular d) Elliptical

Q.10 A transistor can be used as_____ for application

a) Amplifier b) Inverter

c) Switch d) All

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define dissipation capability?

Q.12 Define voltage gain?

Q.13 What is heat sink in amplifiers?

Q.14 What is an Oscillator

Q.15 What is feedback.

Q.16 What is voltage amplifier?

Q.17 What are clamping circuits?

Q.18 Define CVT.

Q.19 What is offset voltage?

Q.20 Two advantages of negative feedback.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is difference between oscillator and alternator.

Q.22 How transistor works as a switch.

Q.23 Explain working principle of IC voltage regulator.

Q.24 Explain double tuned voltage amplifier.

Q.25 Explain working of class A amplifier in brief with input and output waveforms.

Q.26 Explain working of wien bridge oscillator.

Q.27 Discuss the working principle of astable multivibrator.

Q.28 Explain Emitter follower circuit and its applications?

Q.29 What is advantage of voltage IC regulator over other regulators.

Q.30 What do you mean by offset even voltages and currents?

Q.31 Explain RC as differentiator circuits.