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4th Sem / Branch : 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 PUSH PULL amplifier uses _____amplifiers

a) Two b) One

c) Four d) None

Q.2 Crystals have a very low _____.

a) Low Q b) High Q

c) Small Inductance d) Large Resistance

Q.3 In class A Amplifier , collector current flows for ___ .

a) Less than half cycle b) Half the cycle

c) Entire cycle d) Less than entire cycle

Q.4 Oscillators uses _____ feedback

a) Positive b) Negative

c) Sinusoidal d) None

Q.5 The impedance Of RLC series circuit at resonance is _____ .

a) resistive b) capacitive

c) Inductive d) None

Q.6 A tuned voltage amplifier is used to amplify signal of _____ .

a) Low frequency b) Medium frequency

c) High frequency 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 diode clipper circuit

a) Inserts dc level

b) Produces average of input

c) Removes part of waveform

d) None

Q.9 Value of CMRR is _____ for an ideal OP AMP:

a) Zero b) Infinity

c) Moderate d) None

Q.10 A Schmitt trigger uses ___ feedback to generate square wave

a) Positive b) Negative

c) Current series d) None

SECTION-B

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

Q.11 Define PSRR ?

Q.12 What is a tuned amplifier ?

Q.13 Define Low Pass filter ?

Q.14 Why positive feedback is used in OScillator

Q.15 What is negative feedback.

Q.16 What is power amplifier ?

Q.17 Crystals have a very low ____ ?

Q.18 Name any two types of oscillator .

Q.19Class C amplifier are more widely used in _____ circuit ?

Q.20 The distortion is minimum in _____ type of power amplifier .

SECTION-C

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

Q.21 Why impedance is maximum at parallel resonance .

Q.22 How transistor works as a switch.

Q.23 Explain working principle of CVTs.

Q.24 Explain Single tuned voltage amplifier .

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

Q.26 Explain working of Hartley oscillator .

Q.27 Explain Barkhausen condition

Q.28 Explain Emitter follower circuit and its applications?

Q.29 Explain series resonance circuit .

Q.30 What are the applications of RC circuits ?

Q.31 Explain RL as differentiator circuits .

Q.32 Explain RC as integrator circuits .

Q.33 Why Power amplifiers are called large signal amplifiers ?

Q.34 Explain IC 741 .

Q.35 Explain impedance matching in ampilfiers

SECTION-D

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

Q.36 Explain monostable multivibrator circuits .

Q.37 Explain OP AMP as summer and subtractor circuits .

Q.38 Describe the working of transformer coupled amplifier with the help of neat diagram