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180933/170933

3rd Sem / Branch : Electrical Engg
Subject:- Electronics-II

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 The distortion is minimum in.....type of amplifier (Co1)

a) Class C b) Class A
c) Class B d) Class AB

Q.2 At series resonance, the circuit offers .....impedance (CO2)

a) Zero b) Maximum
c) Minimum d) None of the above

Q.3 Gain of an emitter follower is (CO3)

a) Less than unity b) 10
c) 50 d) 100

Q.4 An oscillator requires (CO4)

a) Positive feedback
b) Negative feedback
c) An amplifier and a positive feedback
d) An amplifier and a negative feedback

Q.5 Push-Pull amplifier uses.....transistors. (CO1)

a) 3 b) 1
c) 2 d) 4

Q.6 Monostable multivibrator has only.....stable state (CO5)

a) Two b) One
c) No d) Three

Q.7 Hartley Oscillator uses (CO4)

a) Negative feedback b) A Tickler Coil
c) Split Inductor d) Quartz

Q.8 An ideal OP-AMP has (CO7)

a) Infinite voltage gain
b) Infinite input resistance
c) Zero output resistance
d) All of the above

Q.9 When RC circuit is taken as integrator circuit, output is taken across (CO5)

a) Capacitor b) Resistor
c) Source Voltage d) None

Q.10 An IC voltage regulator has.....pins (CO)

a) Two b) One
c) Four d) Three

SECTION-B

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

Q.11 Efficiency of Class B amplifier is.....higher than that of class A amplifier. (CO1)

Q.12 Negative feedback is used in..... (CO3)

Q.13 CMRR is..... (CO7)

Q.14 Ouput impedance of voltage amplifier is.....as compared to power amplifier. (CO1)

Q.15 Draw damped oscillation (CO4)

Q.16 At parallel resonance, the circuit impedance is..... (CO2)

Q.17 Colpitt's oscillator uses.....(capacitive/inductive) feedback. (CO4)

Q.18 Bistable multivibrator has.....stable states (CO5)

Q.19 Expand CVT. (CO6)

Q.20 Clamping is the process of introducing a DC.....into an ac signal. (CO5)

SECTION-C

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

Q.21 Write any five differences between voltage and Power Amplifier. (CO1)

Q.22 List five applications of Tuned voltage Amplifier. (CO2)

Q.23 Explain the working of Wien Bridge oscillator. (CO4)

Q.24 What is Q-factor? What is its significance?

Q.25 List the essentials of an Oscillator circuit. (CO4)

Q.26 Differentiate between Series and Parallel Resonance

Q.27 Explain the working of class B Power Amplifier with diagram. (CO1)

Q.28 Describe the operation of Transistor as a switch. (CO5)

Q.29 Differentiate between Positive feedback and Negative feedback in Amplifiers. (CO3)

Q.30 Explain the working of IC Voltage regulator. (CO6)

Q.31 Explain the concept of Heat sinks in Power Amplifier. (CO1)

Q.32 Draw symbol of Op-Amp and list three characteristics of an ideal Op-Amp. (CO7)

Q.33 Explain the working of a stable multivibrator. (CO5)

Q.34 Draw and explain circuit diagram for diode clipping circuits. (CO5)

Q.35 Explain the Op-Amp as an integrator with diagram. (CO7)

SECTION-D

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

Q.36 Explain the working of Class B PUSH PULL amplifier and its advantages. (CO1)

Q.37 Explain various diode clamping circuits. (CO5)

Q.38 Explain Emitter Follower circuit and List some applications of Emitter follower circuit. (CO3)

(**Note:** Course outcome/CO is for office use only)