No. of Printed Pages : 4
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180933/170933

3rd Sem / Electrical
Subject:- Electronics II

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 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.2 Gain of emitter follower circuit is_____.

a) Unity b) Infinite
c) 10 d) 100

Q.3 The bisatble mutibvibrator has _____ stable state

a) One b) Two
c) No d) None

Q.4 555 timer consists of_____

a) Comparator b) RS Flip flop
c) Transistor & resistor d) All above

Q.5 Push Pull amplifier use

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

Q.6 For ideal OP AMP, value of term CMRR is_____

a) Zero b) Infinite
c) 100 d) None

Q.7 Crystal have a very_____

a) Low Q b) High Q
c) Small Inductance d) High Inductance

Q.8 The impedance of RLC series circuit at resonance is_____

a) Resistive b) Capacitive
c) Inductive d) None of these

Q.9 In class A Amplifier, operating point is located at_____

a) Centre of load line b) Near saturation
c) Cut of point d) None

Q.10 The distortion is minimum in_____ type of amplifier.

a) Push Pull b) Class A
c) Class B d) None

SECTION-B

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

Q.11 In power amplifier _____ coupling is used?

Q.12 Amplifiers use_____ feedback.

Q.13 With negative feedback, the bandwidth of an amplifier_____

Q.14 What is a tuned amplifier.

Q.15 LC circuit is called_____.

Q.16 Integrator circuit is a _____ filter?

Q.17 What is clamping circuit.

Q.18 What is a monostable multivibrator.

Q.19 A 555 timer is 8 pin IC. (True/False)

Q.20 An OP AMP has_____ number of inputs.

SECTION-C

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

Q.21 Explain the term: Slew rate and PSRR.

Q.22 Write a brief note on Emitter follower circuit.

Q.23 Explain in brief operation of Push Pull amplifier.

Q.24 Write a note on feedback and its importance.

Q.25 Explain working of Wien Bridge Oscillator.

Q.26 Difference between oscillator and alternator.

Q.27 Give applications of tuned voltage amplifiers.

Q.28 Explain impedance matiching in power amplifiers?

Q.29 Explain the term distortion and dissipation capability.

Q.30 Explain working of Astable multivibrator?

Q.31 Explain the differential amplifier.

Q.32 Explain the parallel resonance.

Q.33 Explain transistor as a switch.

Q.34 Write a note on CVTs

Q.35 Discuss the effect of negative feedback on gain, stability and bandwidth

SECTION-D

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

Q.36 Explain working of Class A ended amplifier and its collector efficiency.

Q.37 Explain various Diode Clamping circuits.

Q.38 Explain working of RC oscillator circuit.