

- Q.24 Discuss the effect of negative feedback on gain, distortion and bandwidth.
- Q.25 Explain Emitter follower circuit
- Q.26 What are the advantages of tuned amplifiers?
- Q.27 Write short note on single tuned voltage amplifiers.
- Q.28 Draw pin diagram of 555 timer?
- Q.29 Explain diode clipping circuits in brief
- Q.30 Explain working of bistable multivibrator?
- Q.31 Explain SMPS.
- Q.32 Explain RC as integrator circuits.
- Q.33 Explain UPS
- Q.34 What is an oscillator. Write Barkhausen criteria.
- Q.35 Explain operation of Wien bridge oscillator.

SECTION-D

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

- Q.36 Explain working of complementary symmetry push pull amplifier.
- Q.37 Explain working of RC phase oscillator.
- Q.38 Explain working and applications of transistor inverter circuit using power transistors.

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**4th Sem / Branch : Fine Tech & Safety
Subject:- Electronic Devices and Circuits**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 In class B amplifier operating point is located at _____
 a) Centre of load line b) Near saturation
 c) Cut off point d) None
- Q.2 Distortion is minimum in _____ type of amplifiers
 a) Class A b) Class C
 c) Class AB d) Push Pull
- 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 The Hartley Oscillator uses
 a) Negative feedback b) Negative
 c) Sinusoidal d) None
- Q.5 Transistor can be used as _____ for application

- a) Switch
- b) Amplifier
- c) Inverter
- d) All

Q.6 _____ multivibrators are used as flip-flop in digital circuits

- a) Astable
- b) Monostable
- c) Bistable
- d) None

Q.7 An oscillator always needs an amplifier with _____:

- a) Negative feedback
- b) Positive feedback
- c) Both types of feedback
- d) LC tank circuit

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

- a) Resistive
- b) Capacitive
- c) Inductive
- d) None

Q.9 Constant dc output voltage is obtained in _____ power supply:

- a) Regulated
- b) Non regulated
- c) Negative
- d) None

Q.10 A clamper circuit is known as _____

- a) Average circuit
- b) DC resistor
- c) AC resistor
- d) Inverter

SECTION-B

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

Q.11 Output wave form of 555 timer is _____?

Q.12 What is tuned amplifier?

Q.13 _____ multivibrator is called one shot multivibrator?

Q.14 In integrator circuit, output is taken across _____

Q.15 What is negative feedback?

Q.16 What is voltage amplifier?

Q.17 Class _____ has highest collector efficiency

Q.18 The negative feedback increases _____ in amplifier.

Q.19 Push pull amplifier uses class _____?

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

SECTION-C

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

Q.21 Explain the term collector Efficiency and Distortion in Amplifiers.

Q.22 Explain positive feedback and its importance

Q.23 Explain in brief operation of class A amplifier.