

- Q.25 Explain working of class B amplifier in brief with input and output waveforms.
- Q.26 Explain working Hartley and Colpitt oscillator.
- Q.27 Discuss the working principle of astable multivibrator.
- Q.28 Explain Emitter follower circuit and its applications?
- Q.29 Explain OPAMP as an inverter and scale changer.
- Q.30 Explain concept of variable voltage regulator?
- Q.31 Explain working principle of Photo transistors.
- Q.32 Explain RL as differentiator circuits.
- Q.33 Write a note on PLL?
- Q.34 What is effect of removing by pass capacitor from CE transistor amplifier.
- Q.35 Explain concept of Schmitt trigger circuit.

SECTION-D

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

- Q.36 Explain working of RC coupled amplifier with advantages and its frequency response.
- Q.37 Explain IC 555 as Monostable and astable multivibrator.
- Q.38 Explain working of Complementary Push Pull amplifier & its advantages and disadvantages

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Roll No.

4th Sem / Elect, GE, Power Station Engg., Elect. & Eltx Engg. Fire 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 PUSH PULL amplifier uses:
- a) Class A b) Class B
- c) Class C d) None
- Q.2 _____multivibrator does not require trigger pulse :
- a) Astable b) Multistable
- c) Bisatable d) All
- Q.3 Emitter bypass capacitor _____gain of an amplifier
- a) Increases b) Decreases
- c) Makes zero d) Makes 1
- Q.4 Oscillators 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 Gain of an Emitter follower circuit _____:
- a) 1 b) 10
c) 100 d) None
- Q.7 The collector efficiency of amplifier is minimum for:
- a) Class A b) Class B
c) Class C d) Class AB
- Q.8 When RL circuit is used as integrator, output is taken across:
- a) Resistor b) Inductor
c) source d) None
- Q.9 Output waveform of 555 timer is:
- a) Sine b) Triangular
c) Rectangular d) Elliptical
- Q.10 For transistor to work as a switch, it is operated in _____
- a) Cutoff b) Active
c) Saturation d) All

SECTION-B

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

- Q.11 Define dissipation capability?
- Q.12 Define fixed voltage regulator?
- Q.13 What are photo resistors?
- Q.14 What is an Opto coupler
- Q.15 What is negative feedback.
- Q.16 What is power amplifier?
- Q.17 What are clamping circuits?
- Q.18 Define CMRR.
- Q.19 What is slew voltage?
- Q.20 Define VCO.

SECTION-C

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

- Q.21 What is difference between voltage and power amplifier
- Q.22 How transistor works as a switch.
- Q.23 Explain working principle of IC voltage regulator.
- Q.24 Explain double tuned voltage amplifier.