| | | 1 | | |
|-----|------|--|----------------|--|
| | | Unit - II .ov. letol) | | |
| 2. | a) | Sketch a schmitt trigger circuit and explain its working principle. | (8) | |
| | b) | Explain how amplitude and frequency stability are improved in an osc | illator. | |
| | | | (8) | |
| 2. | | Europein Dan Khauman anitaria in briaf | . (6) | |
| 2. | a) | Explain Bar Khausen criteria in brief. | (0) | |
| | b) | Find the operating frequency of a $\frac{1}{10000000000000000000000000000000000$ | 100µH | |
| | | and $L_2 = 1 \text{ mH}$; Much al inductance between onl $\mu = 20 \mu/\text{H}$ and | C = 20 | |
| | | PF. | (10) | |
| | | Unit - III | | |
| 3. | a) | Explain and Draw the differential Amplifier with Darling ton connection | ion, and | |
| | 1.) | also explain the DC Analysis. | (8) | |
| | 0) | Give ideal versus Achial characteristics of OP-AMIP. | (8) | |
| 2 | | Ur The input signal With an On A min 0.02 sign 1.5 X 1054 What are | 1 | |
| 3. | a) | The input signal vi to an Op-Amp is 0.03 sin 1.5 \times 10° t. What car maximum gain of an op-amp with flow rate of 0.4 v/usec | 1 be the | |
| | b) | Explain in brief five application of On- Amp? | (8) | |
| | 0) | Unit - IV | (0) | |
| 4. | a) | A ten bit D-A converter has a step size of 10mA Find its maximum fi | ull scale | |
| | u) | output current and percent resolution. | (8) | |
| | b) | Explain series and shunt voltage regulators in brief. | (8) | |
| | | • OR | | |
| 4. | a) | Draw and explain internal structure of IC-555 timer? | (8) | |
| | b) | Explain performance measures of Regulated Power supply. Also give | ve basic | |
| | | Aspects of Power Supply Characteristics. | (8) | |
| | | Unit - V | | |
| 5. | a) | A class B transformer coupled Amplifier is to supply 4W to a 10 | Ω load | |
| | | Available supply voltage $Vcc = 30V$. The transformer coefficiency | is 75% | |
| | 1.) | Specify the output transistor and output transformer. | (10) | |
| | b) | Explain non linear distinction in Power Amplifier. | (0 | |
| 5. | 117. | UR | | |
| | Wr | Oregination of the second seco | (8+8) | |
| | a) | Quari-complementary symmetry amplifier. | | |
| vđ | D) | Lisher order hormonic generation in Dewer Amplifier. | | |
| | C) | righer order narmonic generation in Power Ampliner. | | |
| | | State & explain stability criteria for feedback amplifier. | (d | |
| 410 | 3100 | | | |
| - | 4107 | 14 | and the second | |