rat

- b) For a SCR, discuss the forward bias operation for different supply voltages and gate currents, considering the forward & reverse biased junctions in the SCR.
- c) How is the heat, generated by an electrical heater, controlled by a SCR? Draw a circuit and explain its working.

Unit - III

a) Sketch and explain the frequency response of RC coupled amplifier. b) With the help of neat block voltage diagram, derive the expression for closed loop voltage gain of series negative feedback amplifier.

c) Three amplifiers with absolute voltage gains of 20, 50 and 200 are connected in cascade. Calculate

(ii) The output peak to peak voltage when the input voltage is $10 \, \mu V$

a) Sketch the circuit diagram of Hartley oscillator and explain its operation. Give the expression for frequency of oscillations.

b) Discuss the effects of voltage series negative feedback.

c) In a transistor Colpitt's oscillator, L = 10 mH, calculate the value of C= C1 = C2 whose frequency of oscillations is 40 kHz.

Unit - IV

7. a) With a neat circuit diagram explain the working of op-amp Integrator and derive the expression for output voltage.

b) For an op-amp inverting amplifier circuit $R_1=10k\Omega$, $R_f=240k\Omega$ biased with ±15Vsupply, calculate (i) Gain of op-amp (ii) peak value of output voltage if input is sine wave with peak of 1mV (iii) Draw the output and input wave forms.

c) Define amplitude modulation and frequency modulation. Considering a carrier signal and input signal show the respective modulated output waveforms.

- 8. a) Draw the schematic block diagram of communication system and explain the detailed function of each block.
 - b) Design a non-inverting amplifier with a closed loop gain of 10. Calculate the input voltage to get an output voltage of 2 V.
 - c) With a neat circuit diagram show how an op-amp can be used as an inverting adder of v₁ and v₂. Arrive at the expression for output.

Unit - V

9. a) Perform the following operations.

i) $(125)_8 = (?)_2$ ii) $(1000)_{16} = (?)_{10}$ iii) $(8000)_{10} = (?)_{16}$

b) Convert following numbers to binary i) (63.125)₁₀ ii) (A00.02)₁₆

- c) Subtract (111001)₂ from (101011)₂ using 2"s complement method.
- a) State Demorgan's theorems and prove them using Truth table.
 - b) Draw logic circuits to realize Y using basic gates

i)
$$y = ABC + \overline{ABC} + \overline{ABC} + \overline{ABC}$$

ii) $y = (\overline{A+B}).(\overline{A}+\overline{C}).(\overline{B}+C)$

- c) Realize NOT, AND, OR using only NAND gates.
- d) Draw Truth table for half adder and design this Half adder using Basic gates.

BT* Bloom's Taxonomy, L* Level

NMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi)

First Semester B.E. (Credit System) Degree Examinations

Make up Examinations - January 2016

ration: 3 Hours

15EC112 - BASIC ELECTRONICS

Max. Marks: 100

Note: 1) Answer Five full questions choosing One full question from each Unit.
2) Missing data if any may be suitably assumed.

| | by suitably assumed. | |
|----|--|---------------|
| |) Heli . | s BT |
| | Sketch waveforms of input voltage and output voltage. Considering diodes to be voltage. | 10 L*3 |
| p) | Draw circuit of loaded Zener Voltage Regulator. Write expressions in terms of DC supply voltage (Vs) and Zener voltage (Vz) for Is, current from D C supply and IL, the current in load resistance | 8 L4 |
| c) | and supply frequency is 50 Hz. Determine capacitance value required for ripple factor to be 5%. | 4 L3 |
| | Sketch two approximations of forward V-I characteristics of silicon diode. Mark cut in voltage and dynamic resistance and explain. Show the electrical equivalent representations. | 6 L4 |
| | With circuit diagram, explain operation of diode bridge rectifier with resistive load. Sketch waveforms of input voltage and output current. Derive expressions load. Sketch waveforms of input voltage and output current. Derive expressions load. Sketch waveforms of input voltage and output current. Derive expressions load. Sketch waveforms of input voltage and output current diodes to have for average load current conducting resistance equal to Rt. Circuit of On. 2b) has AC supply of 230 volts (RMS) and average load current of 500 milliampere. Assume diode to be silicon. Calculate value of load of 500 milliampere. | 10 L3 4 L2 |
| | resistance. | 8 L4 |
| 0 | Unit – II Unit – II Unit – II a) Using relations between l_c , l_s , & l_s ; derive an equation between α and β as and β are for the transistor, if measured value of l_c is 1mA are already and β as for the transistor, if new $l_c = 5$ mA. | 6 L3 |
| | b) Calculate the 6. dc of l _B is 25 μA. Determine new base current, and of l _B is 25 μA. Determine new base current, and their ranges. | nd 6 L2 |
| | Indicate a sistor circuit | |
| | transistor lo Vs Vcs transistor lo Vcs transistor lo Vcs Vcs transistor lo Vcs transistor lo Vcs Vcs transistor lo Vcs Vcs transistor lo Vcs Vcs transistor lo Vcs Vcs transistor | |
| 2 | (Assume for every (Assume for | 8 1 |
| 3 | increase is = 10 pmA) Ic increases by 0.5 mA) Ic increases by 0.5 mA) and on this sketch draw and on this sketch best | ,T.O. |

and on this sketch draw

dc load line & find the best Q point (Isa, Ica, Veca, Vec).

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- e) With circuit diagram and waveforms, explain SCR firing circuit to provide 90° b) Draw the VI characteristics of SCR and explain it.
- phase control in a half wave controlled rectifier.

- a) Draw the block diagram of series voltage negative feedback amplifier and derive its closed loop voltage gain. Also state any two advantages of this circuit.
 - b) Explain the frequency response of RC coupled amplifier with a neat diagram.
 - c) Calculate the closed loop gain for the negative feedback amplifier when open loop gain, AV = 200000 and feedback factor B = 0.01. Also calculate the closed loop gain when the open loop gain is changed by +25%.
- a) Explain the working of Hartley oscillator with the help of circuit diagram and give the expressions for frequency of oscillations and gain.
 - b) What are the two statements of Barkhausen criterion? Explain them.
 - c) Calculate the value of R in a RC phase shift oscillator for frequency of oscillations of 2 kHz and C = $0.1\mu F$. Draw the circuit diagram indicating all the values.

Unit - IV

- a) Draw the circuit diagram of an inverting amplifier using opamp. If R_1 =1 $k\Omega$, $R=10~k\Omega,~V_{cc}=\pm10V,~Calculate~gain~of~the~amplifier.~Also calculate~the~output$ voltage when input voltage of 2V is applied.
 - b) Write the general block diagram of communication system and explain each block.
 - c) List out the characteristics of ideal opamp.
- a) With the block diagram of CRO, explain the functions of each block.
 - b) Explain the principle of frequency modulation with suitable waveforms. Compare AM over FM.
 - c) A sinusoidal signal with peak value of 6mV and 2 kHz frequency is applied to the input of an ideal inverting opamp amplifier with R_1 =20 k Ω . Calculate the value of Rf to obtain output sine wave of peak magnitude 60mV. Draw the circuit diagram with all values marked in it.

Unit - V

- a) Subtract (101101)₂ from (11010)₂ using 2's complement method.
 - b) Perform the following. i) $(249.75)_{10} = (?)_8$ ii) $(7356)_8 = (?)_2$
 - c) Implement Full adder using two Half adders. Obtain the equations for Sum and Carry.
- 10. a) Show the symbols and write truth tables for basic gates.
 - b) Perform the following operations i) $(1013)_{16} = (?)_{10}$ ii) $(6451)_{10} = (?)_2$ iii) $(A00.13)_{16} = (?)_2$
 - c) (i) Using basic gates, realize an exclusive OR gate. Write truth table. (ii) Show the truth table for a half adder. Give the equations for 'sum' and

NMAM INSTITUTE OF TECHNOLOGY, NITTE

(An Autonomous Institution affiliated to VTU, Belagavi) Second Semester B.E. (Credit System) Degree Examinations

April - May 2016

15EC112 - BASIC ELECTRONICS

1: 3 Hours

Note: Answer Five full question

| | Note: Answer Five full questions Max | . Marks: 100 |
|---|---|--------------------|
| | Note: Answer Five full questions choosing One full question from each Unit | nit. |
|) | Sketch V—I characteristics of an ideal diode and two approximate the two approximations and explain with reference to characteristics. | Marks BT* |
|) | Define ripple factor for a rectifier. With sketches of waveforms explain how magnitude. Derive ripple factor for a full wave rectifier reduces the output ripple using approximate analysis. A diode bridge rectifier has an input a.c. supply of 230 V rms and frequency of | 8 L3 |
| | 50 Hz. Load resistance is 250 ohms. Considering diodes to have R _f = 3 ohms, calculate (i) average load current and (ii) r m s output voltage. | 4 L4 |
| | With circuit diagram and waveforms of input voltage and output current, explain the operation of a half wave diode rectifier feeding a resistive load. Derive expressions for output current and output voltage regulation considering diode to have conduction resistance of R _f . | 8 L3 |
| | Discuss the different types of junction break down that can occur in a reverse biased diode. Show the symbol of Zener diode and sketch the reverse V—biased diode. Show the symbol of Zener diode and sketch the reverse V—characteristic with important parameters marked on it. Explain their significance characteristic with important parameters marked on it. | e. 8 L3 |
| | characteristic with important parameters marked on the parameters mark | 4 L4 |
| а | Draw the circuit symbols for NPN and PNP transistors. Show the current of 16 mA. The transistor | ent 6 L1 has rent, |
| h | A cortain transistor the base current points with Bdc = 200, Calculate | the 6 L4 |
| | if the transistor is replaced of collector current. The common emitter input and output characteristic collector current. | stics, 8 L2 |
| | new values of emitter and second new values of sketch the common emitter input. For NPN transistor sketch the common emitter input. For NPN transistor sketch the common emitter input. The showing various regions of operations and explain. For NPN transistor sketch the common emitter input. The showing various regions of operations and explain. The showing various regions of operations are shown as the showing various regions are shown as the show | upply 6 L3 |
| | voltage and the | |

| | 15EC112 | | |
|----|--|----|----|
| a) | Design an op-amp circuit for an output $V_0 = -V_1 - V_2 - 5V_3$ Make up / Supplementary – July 2016 | | |
| c) | Explain the operation of CRO with neat block diagram. | 6 | L6 |
| | with neat block diagram | 6 | L4 |
| | | 8 | L2 |
| a) | i) $(1010101111100)_2 = (?)_8 = (?)_{16}$ ii) $(240)_{10} = (?)_2 = (?)_8 = (?)_{16}$ | | |
| b) | Perform subtraction using 2's complement method. | 10 | L2 |
| | | 10 | L3 |
| a | Realise using basic gates | | |
| | i)xyz+xyz+xy+xy | | |
| | ii) $ABC + ABC + ABC$ | | |
| | | 8 | L2 |
| b | Implement EX-OR gate using only Basic gates. | 4 | L3 |
| C | Design Half-adder circuit using NAND gates. | 8 | L3 |
| P | Bloom's Taxonomy, L* Level | | |
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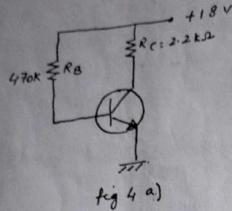
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15EC112

4. a) In the circuit, the silicon transistor has a β of 100. Determine Is. Ic. VCE



- b) Sketch and explain the forward characteristics of a SCR for different gate circuits.
- c) With circuit of half wave controlled rectifier using SCR, explain pulse triggering circuit. Sketch output waveform with sine wave as input.

Unit - III

- a) Draw the circuit of common emitter RC coupled Transistor amplifier and explain 5. the significance of each component.
 - b) Draw the circuit of Colpitt's oscillator and explain its operation. Give the expression for frequency of oscillations.
 - c) Three amplifiers are working in cascade with 50 mV peak to peak at input providing 150 V peak to peak output. If the absolute voltage gain of the first stage is 20 and the input to third stage is 15 V peak to peak, calculate
 - (i) Overall voltage gain in decibel.
 - (ii) Voltage gain of each stage in decibel.
- a) Draw a circuit of RC phase shift oscillator and explain its operation. Also give the equation for frequency of oscillations.
 - b) State and explain Barkhausen criterion for sustained oscillations.
 - c) In a transistor Hartley oscillator, $L_1 = 5$ mH, $L_2 = 10$ mH and C = 0.01 μF Calculate
 - Frequency of oscillations (i)
 - (ii) Feedback factor
 - Gain required for sustained oscillations (iii)

Unit - IV

- a) With a neat circuit diagram explain how op-amp can be used as a differentiator and derive the expression for output voltage.
 - b) Define modulation. Explain amplitude modulation with neat waveforms.
 - c) Design an op-amp inverting amplifier biased with ±15 V DC supply. Given $R_1=10k\Omega$, $R_2=50k\Omega$. Calculate the output voltage when the input is (i) 2V (ii) 10V.

NMAW INSTITUTE OF TECHNOLOGY, NITTE CENTRAL LIBRARY First / Second Semester B.E. (Credit System) Degree Examinations Make up / Supplementary Examinations – July 2016 15EC112 - BASIC ELECTRONICS 3 Hours Max. Mar. 1) Answer Five full questions choosing One full question from each Unit. Max. Marks: 100 2) Missing data if any may be suitably assumed. Unit - 1 Draw circuit of a diode and a series resistance in forward bias across a DC Marks BT* praw clied is silicon, using the piecewise linear approximation, calculate supply of current in diode, considering diode dynamic resistance as equal to 5Ω , value of the valu 6 L*4 show the circuit of a full wave rectifier using two diodes with resistive load and explain operation. Sketch waveforms of input voltage and output voltage. Considering diodes to be ideal, derive expressions for output average D C voltage and output RMS voltage. 10 L3 A full wave rectifier is having a capacitive filter. The load resistance is 50 Ω , capacitance is 1000 µF and supply frequency is 50 Hz. Determine % ripple L2 factor. sketch forward and reverse V-I characteristics of Germanium diode. Mark cut in voltage, dynamic resistance and reverse breakdown voltage of diode and 6 L2 With circuit diagram, explain operation of half wave diode rectifier with resistive explain. load. Sketch waveforms of input voltage and output current. Derive expressions for average load current and power efficiency considering diode to have 10 L4 Above circuit has AC supply of 110 volts (RMS) and average load current of 100 conducting resistance equal to Rf. milliamperes. Assuming diode to be silicon, calculate value of load resistance. 4 L2 Indicating the current equations for a transistor in a CE stage, clearly bring out the function of a transistor as a current amplifier for a small current signal given 8 L4 For a NPN transistor in active region, assuming that l_B Vs V_{BE} characteristics are the same the same that l_B Vs l_B characteristics are the same that l_B vs l_B chara the same as that of a normal silicon diode, and $\beta_{dc}=80$; calculate the circuit voltage causes 3uA change in la Given Voltage gain when 50mV change in input voltage causes 3µA change in I_B. Given at its base terminal. 6 Draw the typical input and output Characteristics of common emitter NPN transister of the typical input and output parameters and their ranges. L2 transistor stage and indicate different parameters and their ranges.

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SEE - November - December 2016 c) A colpitts oscillator has an output frequency of 100 KHz. Select suitable values Draw circuit of R - C coupled amplifier and explain function of all components.

Sketch and a components. b) Show circuit of Hartley Oscillator and explain operation. State expression of output fragues. 6 c) In a R - C phase shift oscillator if capacitors are 0.01µF and resistors are 10 KO, determine the 8 KΩ., determine the output frequency. With block diagram explain the communication system. b) Derive the expression for output voltage for Opamp as a differentiator.

C) Design of output c) Design an adder circuit using Op-amp to obtain an output voltage given by $V_1 = -[0.5V_1 + 0.8V_2 + 2V_3]$, where V₁, V₂, V₃ are outputs. b) Define and explain modulation index of Amplitude Modulation. What is the Draw the block diagram of CRO and explain the function of each block.

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Unit - V

a) Draw the symbol and truth tables for: (i) OR gate

(ii) AND gate

(iii) INVERTER

(iv) NAND gate

b) Implement the following expressions using basic logic gates:

(i) Y = ((A+B)C)D (ii) $Y = (A+C)(\tilde{B}+D)$

c) (i) Convert (475.25)₈ to its decimal equivalent (ii) Subtract (11010)₂ - (10000)₂ using 2's complement method

10. a) Convert the following: (i) (214)₁₀ =(?)₈ (ii) (3509)₁₀ = (?)_H

(iii) $(2AC5.D)_H = (?)_2$

b) Explain exclusive OR gate with the symbol and truth table. Obtain the expression for the output and implement the exclusive OR gate using basic

Explain the operation of a Half Adder and implement using basic gates.

BT* Bloom's Taxonomy, L* Level

NMAM INSTITUTE OF TECHNOLOGY, NITTE

(An Autonomous Institution affiliated to VTU, Belagavi)

First Semester B.E. (Credit System) Degree Examinations

November - December 2016

ion: 3 Hours

16EC112 - BASIC ELECTRONICS

Max Marks: 100

Note: 1) Answer Five full questions choosing One full question from each Unit.
2) Unless stated, consider devices as ideal.

| 2) Unless stated, consider devices as ideal. | Unit. | | |
|--|------------|---------|----|
| Unit-1 | Marks E | BT* | |
| Sketch the approximate V-I characteristic of a Germanium diode. A Germanium | | | |
| diode in series with a resistor R is connected in forward bias across do supply | | | |
| voltage of 9 V. Calculate the value of R for a diode forward current of 2.6 mA. | 6 | L*4 | |
| With the help of circuit diagram and waveforms of input voltage, output current | | | |
| explain the operation of a full wave rectifier with resistive load which uses two | 3 | | |
| diodes and a center tapped transformer. Also derive the expressions for RMS | | | |
| load current and RMS load voltage considering the diode forward resistance |), | | |
| Re | 10 | L4 | |
| c) A two diode full wave rectifier has a load of 2 KΩ. The ac voltage applied to the | 0 | | |
| diodes is 200-0-200 V (RMS). Assuming ideal diodes, calculate | | 14 | |
| i) Average load current ii) Average load voltage | 4 | L4 | |
| The lago load definition of a Zener diode. Ma | irk | | |
| a) Draw the symbol and reverse V-I characteristics of a Zener diode. Ma | 6 | L3 | |
| | | | |
| | ias | | |
| at the Q-point with reference to glode circuit? Explain the period of the connected in forward by at the Q-point using dc load line concept for a diode, connected in forward by at the Q-point using dc load line a across a supply of V volts through a resistor, R. Also draw the dc load line a across a supply of V volts through a resistor, R. Also draw the dc load line a across a supply of V volts through a resistor, R. Also draw the dc load line and the concept for a diode, connected in forward by at the Q-point using dc load line and th | ind | | |
| across a supply of V voits through a respective 6 V | 10 | 0 L3 | |
| mark the Q-point for a Silicon diode with the connected in series with | ha | | |
| A Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $I_z = 20 \text{ mA}$ is conflicted in a Zener diode with $V_z = 9.1 \text{ V}$ and $V_z = 9.1$ | Also | | |
| resistor R, across a dc supply voltage of 30 V. Calculate | | 4 L4 | * |
| resistor R, across a dc supply voltage drops to 27 V. calculate the circuit current if supply voltage drops to 27 V. | | | |
| Unit - II | ther. | | |
| size vit for an NPN transistor, i ur | | 8 L | 2 |
| unit – II Draw the common-emitter configuration circuit for an NPN transistor. Fur sketch and discuss on the input and output characteristics curve. sketch and discuss on the input and output characteristics with V _{cc} =18 V, R _c =2.2 kΩ | and | | |
| sketch and discuss of control of control of the characteristics with Vcc-16 V, Nc | | 6 1 | _2 |
| a) Draw the common-emitter should be sketch and discuss on the input and output characteristics curve. b) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. b) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. b) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. c) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. d) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. e) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. e) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. e) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. e) A transistor has common-emitter characteristics with V_{cc}=18 V, R_c=2.2 kΩ. e) A transistor has common-emitter characteristics of an SCR with V_{cc}=18 V, R_c=2.2 kΩ. | gate | | |
| - 10 11A LIFAW LIFE DO 1 | 9 | 6 | L2 |
| | | | |
| C) Discuss briefly the forward and reverse characteristics. Discuss briefly the forward and reverse characteristics. The compared the forward and reverse characteristics. Discuss briefly the forward and reverse characteristics. The compared the forward and reverse characteristics. The compared the forward and reverse characteristics. The compared the forward and reverse characteristics. Discuss briefly the forward and reverse characteristics. The property of the forw | agram | | |
| components of an NPN transistor daing Compute α and | d B for | 0 | L3 |
| a) Explain all current components of transistor current slc, leaning in | | 8 | LO |
| terminal open. Use suitable graph a) Explain all current components of an NPN transistor using neat circuit diagram. and give the expression for transistor current sl_c, l_Band l_E. Compute α and and give the expression for transistor current sl_c, l_Band l_E. Compute α and and give the expression for transistor current sl_c, l_Band l_E. Compute α and the transistor if l_C is 1 mA and l_B is 25 μA. b) Define the base bias(fixed current bias) with a neat circuit diagram. Expression the base bias(fixed current bias) with a neat circuit diagram. | ess the | 0 | L3 |
| the transistor if Ic IS I find a urrent bias) with a near circuit diagram | MA SERVICE | 6 | - |
| the transistor in to is the transistor in | control | 0 | 12 |
| b) Define the equations Is & Ic and supplication of SCR III house | | 6 | - |
| Claima CHIINDIO VII | | | |
| c) Using suitable | | | |
| circuit. Unit - III Sketch frequency response of R - C coupled amplifier. Mark in the same and explain their significance. Sketch frequency response of R - C coupled amplifier. Mark in the same and explain their significance. | nportant | 8 | L3 |
| of R - C coupled amplifier. | | AND AND | |
| frequency response of their significance. | gain are | | |
| Sketch frequency response of R - C coupled any state of R - C | ill be the | 6 | L3 |
| parameters to how absolute | DE LOS | | |
| b) Explain with examples now Explain with examples now expressed in dB. If an amplifier has absolute power gain reduces to 50? expressed in dB when absolute power gain reduces to 50? | 113 65 | | |
| expressed in db. Il absolute power gain reduces | P.T.O. | | |
| gain in dB when absolute | | | |
| Ugill Wall | | | |