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Code No: 154AW  JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD			
B. Tech II Year II Semester Examinations, November/December - 2020 ELECTRONIC CIRCUIT ANALYSIS			
AGrim	e: 2 Hours  Answer any Five Questions  All Questions Carry Equal Marks	arks;/25	A
1.a) b) 2.a)	Derive the upper and lower cutoff frequencies of the common emitter amplifier Why 3dB frequency for the current gain is not same as the 3dB frequency for the current gain gain gain gain gain gain gain gain	[9+6] Find the	<u></u>
△ (3.a) b)	A voltage amplifier is characterized by an open loop voltage gain of 1 resistance of 50 κΩ and output resistance of 2 κΩ, Negative feedback of 10% voltage is introduced in series with the input to bring the distortion below level. Find the modified values of these parameters.  Draw the current shunt feedback circuit diagram.	of output	A
4.	Determine the feedback factor, current gain, voltage gain, input and output in for the following circuit. Assume ideal h parameters for the transistors.	npedances [15]	A
AG	R1 820 Ω  Q1 2N3904  Q2N3904  Q3 2N3904	AG	Д
AG	R <sub>2</sub> 47 kΩ  R <sub>4</sub> 47 kΩ  R <sub>4</sub> 1 μF 270 Ω  A A A A A A A A A A A A A A A A A A	AG	Д
5.	Derive the expression for the phase shift as a function of frequency for the network of RC phase shift oscillator.	feedback [15]	
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