Reg. No .: 21BECISIY

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Continuous Assessment Test 2 - October 2022

		Semester	: FS 2022-23
Programme	: B.Tech (ECE & ECM)	Code	: BECE206L
Course	: Analog Circuits		: CH2022231001118
			: C2+TC2
Faculty	: Dr. Sangeetha R G		: 50
Time	: 90 Minutes	IVIAX. IVIAI NO	

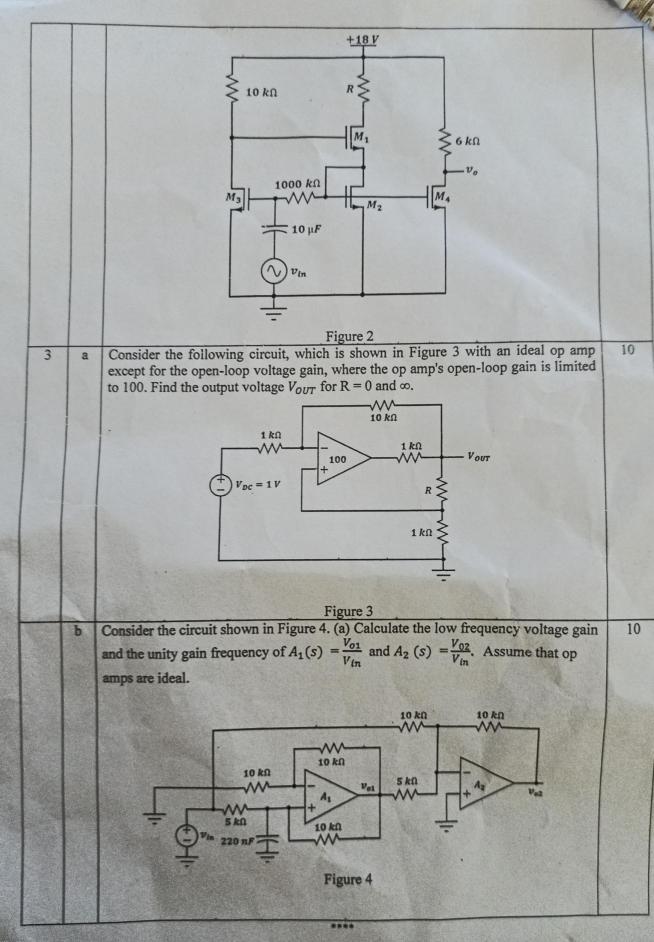
General Instructions (if any): Answer All Questions

Use the following data unless otherwise stated

$$k_{n(1-4)}=1$$
 $\frac{mA}{V^2}$, $\lambda_{n(1-4)}=0.0$ V^{-1} , $V_{THN\,(1-4)}=1$ V , $C_{gs(1-4)}=5$ pF , $C_{gd(1-4)}=1$ pF , $Op-Amp\ supply\ voltage=\pm15$ V , and $\pm V_{SAT}=\pm14$ V

If any data is missing assume and justify

If any data is missing assume and justing Question Text		Marks	
Q. No.	Sub-		
Consider the circuit shown in Figure 1. (a) Calculate the small-signal voltage gair with and without C (b) Find the unity gain frequency with and without C (c) Find the CMRR with and without C (c) Find the CMRR with and without C (d) Find the unity gain frequency with and without C (e) Find the CMRR with and without C (f) Find the unity gain frequency with and without C (g) Find the CMRR with and without C (g) Find the Unity gain frequency with and without C (g) Find the Unity gain frequency with and without C (g) Find the unity gain frequency with and without C (g) Find the Unity gain frequency with and without C (g) Find the Unity gain frequency with and without C (h) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with and without C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequency with an C (l) Find the Unity gain frequen		15	
2		Figure 1 Consider the circuit shown in Figure 2. (a) Determine the DC current flow through the MOSFETs M_{1-4} for R =0, $6 k\Omega$ and $12 k\Omega$ (b) Determine the small-signal voltage gains $A_o = \frac{v_o}{v_{in}}$	15



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