Q. P. Code: 23928

3 Hours

Total Marks: 80

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	1.	Question Number 1 is Compulsory.	
	2.	Attempt Any Three from the remaining 5 Questions.	
	3.	Figures to right indicate the full marks.	
	4.	Assume the suitable data if necessary.	
	5.		
Que. I	Α	Answer Any FOUR of the following	20
	a	Draw and explain the construction of D-MOSFET	
	b		
	C	Explain in brief the r _e model in BJT	
	d	What is necessity of cascading? What is the effect of it?	
	е		
		designed to resonate in parallel with a variable inductor used is of 0.5mH. Determine	
		the frequency of oscillation.	
	f	State the advantages of negative feedback.	
Que. 2	a	State the various types of low frequency oscillators and explain any one in detail.	10
	b	- i i i a a a li i DC I I I Dean the next airquit	10
		diagram of two stage R-C coupled transistor amplifier and also give its frequency	
		response	
Que. 3	а	State the types of Negative feedback amplifiers and explain current series type	10
7.		amplifier in detail	
	b	Draw and explain the bridge wave rectifier with CLC filter with proper waveforms.	10
Que. 4	a	State the various biasing techniques used in BJT and explain voltage divider biasing	10
		technique in detail	
	b	Draw and explain E-type MOSFET in detail with its input and output characteristics.	10
Que. 5	a	Give the complete AC analysis of CE amplifier using either h parameter model or re	10
2		model.	
	b	Differentiate JFET and MOSFET in terms of symbol, construction, Input impedance,	10
		biasing methods used and also source and drain characteristics.	
Que 6	V	Vrite a short note on any two of the following	20
	a	AC analysis of CS amplifier	

FET Differential Amplifier

Concept of DC load Line used in BJT