Roll No			34101
Printed Pages: 2			34101
		BT-4/	M-19
		ANALOGELE	ECTRONICS
		Paper-EC	E-208 N
Time allowed: 3 hours]			[Maximum marks: 75
Note: Attempt any five questions selecting at least one from			
each unit.			101
		Unit	4 00 00 00
1.	(a)	Why does gain of an am	plicer falls off at low and high
	• • •	frequencies?	7
	(b)	Explain voltage divide bis	asing for BJT. 8
2.	(a)	What is operating point of	an amplifier? What factors are
	(4)		ing the Q point for an amplifier?
			10
	(b)	Compare JFET and MOS	FET. 5
	• •	YT_14	7

Unit-II

- (a) Compare class A power amplifier with class B and class C power amplifiers.
 - (b) Explain the working of two stage RC-coupled amplifier. 8
- 4. What is feedback? Explain the two types of feedback. An amplifier with negative feedback has a voltage gain of 100. It is found that without feedback an input signal of 50mV is required to produce a given output, whereas with feedback, the input signal must be 0.6V for same output. Calculate the value of A and β.

Unit-IV

 Discuss dual input and balanced output differential amplifier configuration of Op-Amp. Calculate its input resistance, output resistance and CMRR.

8. (a) Explain the working of Schmitt trigger.

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(b) Define CMRR, slew rate, common mode gain, differential mode gain.

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[Turn over