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SUBJECT CODE NO: - Y-2120 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y (Sem-II)

Examination March / April - 2023 Electronics Paper-IV Amplifiers

[Tim	e: 1:30 Hours] [Max. Mar	ks: 50
N. B	Please check whether you have got the right question paper. 1) Attempt all questions.	
	2) Illustrate your answer with suitable labelled diagram.	
Q1	a) Draw a neat circuit diagram of RC courted amplifier and explain its working,	20
	OR OR	
	With neat diagram explain the trans conductance model for BJT	
Q2	Derive an expression for stabilization of gain by negative feedback.	20
	OR O	
	Write short notes on (any four)	
	1) Frequency response	
	2) Direct coupled amplifier	
	3) Transistor load line analysis	
	4) Stability factor	
	5) h parameter	
	6) Base resistor bias method	
Q3	1) Attempt the following selecting the correct answer from the given alternatives.	10
	Transistor biasing is generally provided by a	
	a) Biasing circuit b) diode c) bias battery d) capacity	
E.	2) For proper operation of transistor the collector base Junction should work in	
	a) Forward bias b) fR bias c) Reverse bias d) none of the above	
	3) R-C coupled amplifier voltage gain over a mid-frequency range is	
	a) Constant b) high c) decreases d) negative	

4)	If the absolute power gain of an amplifier is 100 then its decibel gain is
	a) 40 dB b) 100dB c) 50dB d) 20dB
5)	These areh parameters of transistor
	(a) five b) two c) four d) three
6)	gain Av=
	a) I_2/I_1 b) v_i/v_0 c) I_0/I_1 d) v_0/v_i
7)	Open 100p gain of an amplifier is given by
	a) A b) AB c) B d) none of the above
8)	The parameter hfe is called
a)	Voltage gain b) current gain c) admittance d) Input impedance
9)	The unit of hie parameter is
	a) Mho b) wit c) ohm d) Ampere
10)	A transistor circuit contain more than one stage of amplification is known as