Total No. of Printed Pages: 02

SUBJECT CODE NO:- B-2120 FACULTY OF SCIENCE & TECHNOLOGY B So E V (Som II)

B.Sc. F.Y. (Sem-II)

Examination November/December- 2022 Electronics Paper-IV Amplifiers

[Time: 1:30 Hours]		Op. Op. Sp.	[Max. Marks:50]
N.B	"Please check whether	you have got the right question paper"	
		Fo. Fr. Pol. Sp. Es	
1) Attempt all questions		
	2) Illustrate your answer		
	201		
		rcuit diagram of Fixed Bias or Base bias Circui ne. Determine I_{CQ} , V_{CEQ} , I_{Cmax} and $V_{CE(max)}$	t. 20
		OR O	
1) Draw a neat a	neat circuit diagram of T	ransformer coupled amplifies and explain its	20
working.	3		
	100h		
Q.2 1) Draw a neat cir	rcuit diagram of Commo	on base Amplifier explain its working and derive	20
the equation for		A Share Shar	
a) Voltage	$gain A_{vb}$		
b) Current	gain A_{ib}		
c) Power g	gain P.G.		
		OR S	
	otes on following (any fo	our) S S	20
	ation of operating point.		
	onductance equivalent Cl	ct. of BJT.	
	ack principal		
	ncy response		
	upled Amplifier		
f) Types o	of feed back		
		, & , & , & , & , & , & , & , & , & , &	
Q.3 Solve following M	MCQ with correct Answer	er se	10
A CENT			
1		dle of active region in order to	
_ \	tortion less o/p	b) provide high d.c. bias	
c) Keep the	operating point stable	d) work. Ckt on small d.c. voltages	
2) The voltage d	ivider bias is used	- 27	
a) to reduce	base current	b) to reduce collectors current	
c) to reduce	D.C. Power supply	d) to make α point independent of β	

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		A.P.
3)	In R-C coupled Amplifies the coupling capacitor is used because a) it blocks a.c. b) it allows a. c. input c) it blocks d.c. d) None of the above.	1608 A.A.
4)	The frequency response of Transformer coupled Amplifier isa) Good b) very poor c) large d) short.	
5)	The transconductance gm. is gm= a) $\frac{I_c}{V_{be}}$ b) $\frac{V_{be}}{I_b}$ c) $\frac{I_c}{I_e}$ d) $\frac{I_E}{I_b}$	
6)	The h-parameter h_{fe} life is known as. a) forward voltage gain b) forward current gain c) forward resistance d) forward admittance	ALBOY R
7)	The Common collector Amplifier is also known as a) R-C coupled Amplifies b) direct coupled Amp. c) emitter follower d) None of the above	2017 Still
8)	For Three Stage Amplifier $A_1 = 10dB$ $A_2 = 5dB \& A_3 = 12dB$ The total gain is	
	a) 600dB b)12dB c) 54dB d) 27dB	
9)	The voltage gain of common Emitter Amplifier is	
7))	hfe^2	
10)) The feedback factor is symbolically represented by	
	a) α b) η c) β d) Ω	
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	191 ₂ 198 ₁ 100, 133 ₁	
	De la Contraction de la contra	
	The feedback factor is symbolically represented by a) α b) η c) β d) Ω	
	a) -gm R _L b) gm. R _L c) $\frac{1}{nje}$ · R _L d) 1 1) The feedback factor is symbolically represented by a) α b) η c) β d) Ω 2 1AB53142989D5487A65684A706A132E4	