	На	II Ticket Number :											
	Cod	e: 20AC21T]	1			R-20)		
		B.Tech. II Seme	ster Regula	r & Supp	olemer	ntary	Exar	nino	ations	July 202	3		
		Differe	ential Equ					Cal	culus				
	Мах	. Marks: 70	(Corr	nmon to	all Bran	iches)				Time: 3	Hours		
	NL-4-	1 Oracita Deserv	· · · · · · · · · · · · · · · · · · ·	*****		I D.	4 D						
	Note	 Question Paper In Part-A, each Answer ALL th 	question carr	ies Two I	marks.		art-B)					
			(A	PAR									
1	Δρεινιο	r ALL the followi		ompulsor	• •		(5)	().	_ 10M)	<u> </u>	`	וח
1.		d the particular i)	CC		BL
		te the second o		1000	aeer E							1 2	2 3
			•			•		UIII	1			3	2
		d the partial difference differe				хтоу						4	3
		te Stoke's Thore		_ J _{×yz}	2							5	3
	0) 010		CIII	ПАП	тр							-	Ū
		Answer <i>five</i> question	ons by choosir	PAR ng one qu		om ea	ch un	it (5	x 12 = 0	60 Marks))		
										Marks	CO	В	L
				UN	IT–I								
	2.	Solve ($e_{\mathcal{Y}} = e^{\left[e_{2x}\right]}$	UN + <i>sin2</i>	$\frac{ \mathbf{T}-\mathbf{I} }{ \mathbf{T}-\mathbf{I} }$	1				12M	1		3
				Ô	R								
	3.	Using variation	n of param	eter to :	solve	$\frac{d^2y}{d^2}$ +			12		4		0
		2			T–II	dx2	$a^{2}y$	/ =	secax 12		1		3
	4.	tic				ē			ecax	5			
	4.	Solve $(1 + \frac{1}{x)^2}$	$\frac{d^2y}{dx^2} + (1 +$	$\frac{\left -\frac{dy}{dx} \right ^2}{\left \frac{dy}{dx} \right ^2}$	$+\frac{-11}{y} =$	2sin	[10g((1 +	x)]	12M	2		3
				0	R								
	5.	An uncharged	l con en	U er of ca	R apacity	, C is	s ch	arg	ed by	,			
		applying an e.	m.f $\frac{Esint}{e^{IIC}}$.tl	hroug[]	leads	of se	elf-in	duc	ctance	(
		L and negligib	V 100										
		charge on one	of the pla	tes is $\frac{\vec{E}}{2}$	={sin_	$\frac{t}{\overline{LC}}$ –	$\frac{t}{\overline{LC}}$	cos -	$\left\{\frac{t}{\overline{LC}}\right\}$	12M	0		•
		0	•		<u>, </u>			1	\ <u></u>	I ZIVI	2		3
	6 0)	Form the pe	rtial diffor			n h		limi	notino				
	u. a)	Form the pa			-		-		-				
	I \	arbitrary function						5 (1	– <i>ui</i>)	6M	3		3
	b)	Solve	$\sin f$ and g $(z) = \frac{1}{2} $	from = -x)q =	$= \int G$ $= \mathbb{Z}^{2} (\mathbb{Z})^{\infty}$	- 2				6M	3		3

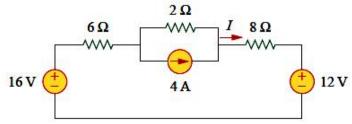
OR

		••••			
7.		Using the method paration of variables, solve $\frac{\partial u}{\partial x} = 2 \frac{\partial u}{\partial t} + \frac{1}{u} \text{ where } u(x, 0) = 6e^{-3x}$			
		SOIVE $\partial x = \frac{1}{2} \partial t + u$ where $u(x, 0) = 6e^{-3x}$	12M	3	3
		UNIT-IV			
8.	a)	Find the directional derivative of $\frac{-6e^{-3x}}{-1x}$			
		the point (2,-1,1) in the direction $G_{f(x,y,z)} = xy^2 + yz^3 a_t^t$ the point (2,-1,1) in the direction $G_{f vector} \overline{\tau} + \overline{j} + \overline{k}$.	6M	4	3
	b)	the print (2, -1) between the surfaces $\frac{-y}{e^2} + \frac{2}{e^2} + $			
		$z = x^2 + y^2 - 3$ at the point (2,-1, 2).	6M	4	3
		OR			
9.		OR ;tor			
		Find constants a,b,c so that the $ve_{\overline{f}} + (4)$			
		$A = (x + 2y + az)\bar{\iota} + (bx - 3y - z)J_{\bar{A}} - \nabla (t + cy + 2z)\bar{k}$	12M	4	3
		UNIT-V			
10.		Verify Green's theorem for $\int_{c}^{L} [(\frac{\mathbf{T} - \mathbf{V}}{(\mathbf{y} + y^{2})} a_{x + x^{2} dy}]$			
		where C is bounded by y=x and $y = x_2$	12M	5	3
		OR			
11.		Verify Stoke's theorem for $\frac{\operatorname{and} y}{\operatorname{oR}^2 + 2}$ 2 and $\frac{\operatorname{and} y}{\operatorname{oR}^2 + 2}$ 2 and $\operatorname{around} the \operatorname{rectangle} \operatorname{bounded} \operatorname{by} \operatorname{the lines}$			
		$x = \underline{\exists} a, y = 0, y = b$	12M	5	3
		*** End ***			

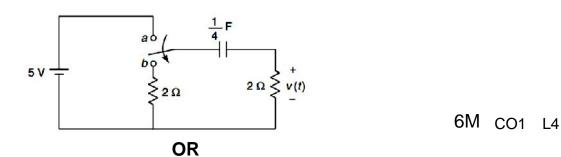
Hall Ticket Number :							
Hall LICKET NUMBER .					R-20		
Code: 20A224T					K-20		
I B.Tech. II Semester Re	egular & Supplei	mentary	Exam	nination	s July 2023		
Electric	al Circuits ar	nd Tec	hnolo	ogy			
(Electroni	cs and Commun	ication E	nginee	ering)			
Max. Marks: 70					Time: 3 Hc	ours	

Note: 1. Question Paper consist	· ·		Part-B)				
2. In Part-A, each question							
3. Answer ALL the ques							
	PART-A	-					
	(Compulsory qu		(-)				
1. Answer ALL the following s	short answer que	estions	(5X	2 = 10	М)	CO	BL
 Determine the initial condi 	tions of the capa	acitor.				CO1	L3
b) Define the quality factor ar	nd peak factor.					CO1	L2
c) For a symmetrical and red	ciprocal network	, if the t	ransm	ission p	parameters		
are A= 2 and B=3 then, de	•					CO1	L3
d) Outline the equivalent circ	uit of a single-ph	nase trar	nsform	ner.		CO1	L2
e) What is the torque equatic	n for a 3-phase	inductio	n mot	or?		CO1	L2
	PART-B	<u>B</u>					
Answer <i>five</i> questions by c	hoosing one questio	n from ea	ch unit	(5 x 12 =	= 60 Marks)		
					Marks	CO	BL
	UNIT-I						

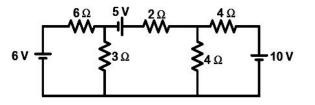
2. a) Find the current I in the circuit shown below



b) Determine the voltage v(t) for t>0 for the network shown in figure:

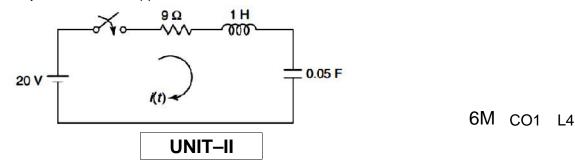


3. a) Find the power dissipated in 3 resistor of the circuit shown in figure using Nodal analysis.

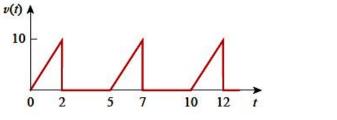


6M CO1 L4

b) For the network shown in figure, the switch is closed at t=0 Obtain the expression for i(t) for t>0.



4. a) Find the average and rms value of the voltage waveform of the figure shown below.



6M CO2 L3

6M CO2 L3

12M CO2 L3

6M CO3 L3

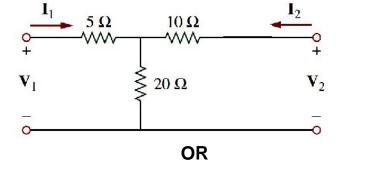
b) Develop the expression for the resonant frequency of RLC series circuit.

OR

 A voltage V = 10 sinwt Is applied to series RLC circuit. Under resonance condition the max voltage across capacitor is found to be 500V, bandwidth is 400 rad/sec and the impedance at resonance is 100 ohms. Find the resonant frequency and circuit constants.

UNIT-III

- 6. a) Express ABCD parameters in terms of admittance parameters for a generalized network.
 - b) Compute the *z* parameters of the circuit in figure. Invistigate whether the netwok is symmetrical and reciprocal.



6M CO3 L4

7. a) The Z parameters of a two port network are $Z_{11}=6$, $Z_{22}=4$, $Z_{12}=Z_{21}=3$ Compute hybrid Parameters and write the describing equations. 6M CO3 L3

6M CO3 L4

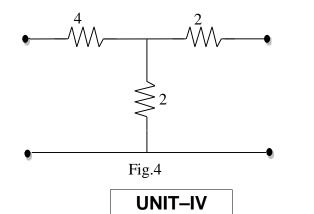
6M CO4 L3

6M CO4 L3

6M CO4 L3

6M CO5 L2

b) Obtain the *y* parameters for the two-port shown in Figure:



- 8. a) Explain the significance of back EMF of a DC motor. Derive the torque equation of a DC motor.
 - b) A 4-pole DC series motor has 946 wave-connected armature conductors. At a certain load the flux per pole is 34.8 mWb and the total mechanical torque developed is 205 N-m. Calculate the line current taken by the motor and the speed at which it will run with an applied voltage of 500 V. Take total armature resistance as 3 .

OR

- a) Select and discuss suitable technique for controlling speed of DC shunt motor at above rated speed. Write the applications of DC shunt motor.
 - b) Develop the expression for emf equation of DC generator. 6M CO4 L3

UNIT-V

- Derive an expression for the emf induced in a transformer winding. Show that emf per turn in primary is equal to emf per turn in the secondary.
 - b) Explain the OC & SC tests on 1- transformer in brief. 6M CO5 L3

OR

- 11. a) Draw and explain the slip-torque characteristic of a typical induction motor. How do starting and maximum torques vary with the rotor resistance?
 6M CO5 L2
 - b) Explain the principle of operation of 3- induction motor. 6M CO5 L3

*** End ***

	Hall	Ticket Number :															
(Code	e: 20A421T													R-20		
I B.Tech. II Semester Regular & Supplementary Examinations July 2023																	
			Elec	-	-	-	-		-		-						
i	Max.	(El Marks: 70	ectro	onic	s an	d C		nuni *****		on Er	ngine	eerir	ıg)	Tin	ne: 3 F	lours	
 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B 																	
			1					RT-A									
					(0	Comp	oulso	ry qu	iestic	on)							
		swer ALL the f			•				-			•) (MC	CO	BL
а) Dr	aw the circuit	diag	ram	n of	fixe	d bi	as a	rrar	nger	nen	t of	a JF	ΞT		CO1	L1
b) E>	plain thermal	stab	ility													L2
C	;) Gi	ve the Compa	risor	ns k	etw	veer	n CE	3, CI	E, C	C c	onfi	gura	ations	5		CO3	L3
d) W	hat are the diff	erer	nt ty	pes	s of	FET	้ร								CO4	L2
е) Di	fferentiate betw	veer	n or	dina	ary	diod	le ai	nd F	PN ju	unct	ion	diode	;		CO5	L1
PART-B																	
Answer five questions by choosing one question from each unit (5 x 12 = 60 Marks) Marks CO BL								BL									
							UN	T–I]					Marito	00	DE
2.	a)	Derive the eq	uatio	on f	or s	tabi	lity 1	facto	or fo	or fix	ed I	oias			6M	1	L1
	b)	Write a short	not	es	on	Sta	biliz	atio	n ag	gain	st v	varia	tions	in			
		VBE and .													6M	2	L2
							0	R									
3.	a)	Explain CE co	-	jura	atior	n wit	th th	ne h	elp	of ir	nput	and	d out	put	014	_	L1,
	ĿŇ	characteristics		6 -				1	(- \\\/	I (8M	3	L2
	b)	Explain the r are the factors					•				CI	CUIt	S. VV	hat	4M	2	L2
							UNI	T–II									
4.		Explain the wineat construct		•			•		•••				⁻ with	na	12M	3	L3
							Ο	R									
5.	a)	With a neat s	ketc	h e	xpla	ain 1	the	ope	ratic	on o	f Er	har	cem	ent			
		mode MOSFE	T.												6M	3	L4
	b)	Explain the pr	incip	ole	of V	'olta	ige (divid	der k	oias	use	ed in	FET	S.	6M	3	L2

		UNIT–III			
6.	a)	Deduce the relationship between Drain resistance, Trans-			
		conductance and Amplification factor of FET amplifier	6M	4	L2
	b)	With neat circuit diagram, explain the small signal model			
		of CE amplifier	6M	5	L3
		OR			
7.		Discuss about input Impedance, Output impedance,			
		Voltage gain and Current gain of an amplifier.	12M	4	L4
		UNIT–IV			
8.	a)	Compare BJT and FET.	6M	4	L3
	b)	Explain how FET works as voltage variable resistor.	6M	5	L4
		OR			
9.	a)	Explain the drain VI characteristics of p-channel JFET.	6M	4	L4
	b)	Differentiate between CD an CS amplifiers	6M	3	L3
		UNIT–V			
10.	a)	Write short notes on i) Varactor diode ii) Photo diode	6M	3	L5
	b)	Draw the energy level diagram of a tunnel diode and			
		explain the operation of tunneling effect	6M	4	L4
		OR			
11.	a)	Draw the energy level diagram of an LED and explain how			
		it emits light.	6M	5	L3
	b)	Draw the structure, symbol and circuit diagram of UJT and			
		explain its operation.	6M	5	L5
		*** End ***			

*** End ***

	На	II Ticket Number :	P 20		
	Co	de: 20AC23T	R-20		
		I B.Tech. II Semester Regular & Supplementary Examinations Ju Chemistry	JIY 2023		
		(Common to EEE, ECE, and AI&ML)			
	Ма	rx. Marks: 70 T	ime: 3 H	lours	
	Not	 e: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B <u>PART-A</u>			
		(Compulsory question)			
1.		swer ALL the following short answer questions (5 X 2 = 10M)		Ю В	L
	a)	What is a solid-state ion selective electrode. Give two examples	S. C	01 L	.1
		Distinguish between cell and battery.	С	02 L	.2
		What is copolymerization. Give any one example.	С	O3 L	.1
		Describe the basic principle of IR-Spectroscopy.		-	.2
	e)	Define molecular elevator.	С	05 L	.1
		<u>PART-B</u>	00 M)	
	А	Answer <i>five</i> questions by choosing one question from each unit (5 x 12 =	Marks	co CO	BL
		UNIT–I	marito	00	22
2.		Discuss the origin of electrode potential? Derive the Nernst			
		equation for determination of single electrode potential	12M	CO1	L4
		OR			
3.	a)	Describe the classification gas sensing electrodes. Give its			
		significance.	6M	CO1	L2
	b)	Explain briefly how the Nernst equation is useful in calculating the electrode potential. Calculate the electrode potential of copper wire (1M) dipped in 0.1M copper sulphate solution at 25 °C. The standard electrode potential			
		of copper is 0.34V.	6M	CO1	L3
4.	a)	Distinguish between primary and secondary batteries.	6M	CO2	L2
	b)	What are dry cells? Explain the respective cell reactions			
	-	involved in Leclanché cell.	6M	CO2	L2
		OR			

5.	Discuss about the classification of fuel cells. Differentiate between ordinary galvanic cell and fuel cell. Give the advantages of fuel cells.	12M	CO2	L4
6.	What are conducting polymers? Discuss about the mechanism conduction in poly acetylene. Give its applications.	12M	CO3	L4
	OR			
7. a)	Discuss about the preparation and applications of the following polymers. i) Urea- formaldehyde resin ii) Buna-N	8M	CO3	L4
b)	but all condensation polymers may not be thermosets. Explain?	4M	CO3	L2
8.	UNIT-IV Describe the principle of Thin Layer chromatography (TLC)? How do you separate components of a sample mixture by Thin Layer chromatography?	12M	CO4	L2
	OR			
9. a)	Discuss about Beer-Lambert's law. Give its limitations.	6M	CO4	L4
b)	Distinguish between Potentiometry and conductometry. UNIT-V	6M	CO4	L2
10.	What are rotaxanes? Describe the structure of rotaxane.	12M	CO5	L2
	OR			
11. a)	Define molecular switches. Discuss about cyclodextrin - based molecular switches.	6M	CO5	L4
b)	Distinguish between rotaxane and catenane. Describe the linear motions in rotaxanes.	6M	CO5	L2
	LIIU			

	Hall Ticket Number :		
	R-20		
	Code: 20AC25T I B.Tech. II Semester Regular & Supplementary Examinations July 2023	2	
	Communicative English	,	
	(Common to EEE, ECE and AI&ML)		
	Max. Marks: 70 Time: 3 H	lours	

	 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. In Part-A, each question carries Two marks. 3. Answer ALL the questions in Part-A and Part-B 		
	PART-A		
	(Compulsory question)		
1.4	Answer ALL the following short answer questions (5 X 2 = 10M)	СО	BL
a)	Is it correct to judge a classmate's character by his very first acquaintance, according to		
	William Hazlitt?	CO1	L2
b)	Explain the following lines:		
	"For men may come and men may go,	004	
	But I go on forever."	CO1	L2
C)	What did Muhammad Yunus learn when he interviewed a woman who was making bamboo stools?	CO1	L2
d)	Why does the prince feel "Life is so horribly fascinating when one is young"?	CO1	L2
e)	What do you learn from the life story of Mrinalini Sarabhai?	CO1	L2
	PART-B		
	Answer <i>five</i> questions by choosing one question from each unit (5 x 12 = 60 Marl	•	
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks	•	BL
0	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT–I	•	BL
2.	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT–I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt?	co	BL L4
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT–I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 0R	co	
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Mark Marks UNIT–I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> .	co	
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Mark Marks UNIT–I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> . i. He killed a tiger.	co	
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Mark Marks UNIT–I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> .	co	
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	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT-I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> . i. He killed a tiger. ii. He has an ulcer on his leg. iii. We shall be living in a day or two. iv. I prefer your company to theirs. v. The child has been suffering from viral fever since last week.	CO CO1	L4
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT–I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> . i. He killed a tiger. ii. He has an ulcer on his leg. iii. We shall be living in a day or two. iv. I prefer your company to theirs. v. The child has been suffering from viral fever since last week. vi. Time and tide waits for none. 6M	CO CO1	L4
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT-I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> . i. He killed a tiger. ii. He has an ulcer on his leg. iii. We shall be living in a day or two. iv. I prefer your company to theirs. v. The child has been suffering from viral fever since last week.	CO CO1	L4
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	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT-I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> . i. He killed a tiger. ii. He has an ulcer on his leg. iii. We shall be living in a day or two. iv. I prefer your company to theirs. v. The child has been suffering from viral fever since last week. vi. Time and tide waits for none. b) Identify the parts of speech for the underlined words in the following sentences. i. <u>Bad</u> habits grow <u>unconsciously</u> . ii. He is <u>too</u> ill to go to <u>work</u> . iii. The book is <u>where</u> you <u>left</u> it.	CO CO1	L4 L3
3.	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT-I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> . i. He killed a tiger. ii. He has an ulcer on his leg. iii. We shall be living in a day or two. iv. I prefer your company to theirs. v. The child has been suffering from viral fever since last week. vi. Time and tide waits for none. 6M b) Identify the parts of speech for the underlined words in the following sentences. i. <u>Bad</u> habits grow <u>unconsciously</u> . ii. He is <u>too</u> ill to go to <u>work</u> . iii. The book is <u>where</u> you <u>left</u> it. 0M	CO CO1 CO3	L4 L3
	Answer five questions by choosing one question from each unit (5 x 12 = 60 Marl Marks UNIT-I Why should a pupil be courteous and polite to his classmates, according to William Hazlitt? 12M OR a) Change the following statements into <u>questions</u> . i. He killed a tiger. ii. He has an ulcer on his leg. iii. We shall be living in a day or two. iv. I prefer your company to theirs. v. The child has been suffering from viral fever since last week. vi. Time and tide waits for none. b) Identify the parts of speech for the underlined words in the following sentences. i. <u>Bad</u> habits grow <u>unconsciously</u> . ii. He is <u>too</u> ill to go to <u>work</u> . iii. The book is <u>where</u> you <u>left</u> it.	CO1 CO3 CO3	L4 L3 L3
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UNIT–III

6.	In what ways	does Dr Stronetz s	succeed in sav	ving the prince's life from the	
	blood-thirsty a	ssassins?		0	12
			OR		
-	D				

12M CO3 L4

7. a	Rearrange each group of jumbled sentences below so as to have well-written paragraphs.			
	i. It teaches you to interact with people, communicative with them and collaborate as a team.			
	ii. Research has shown that playing badminton, tennis, cricket or baseball is said to improve mathematical skills in children.			
	 iii. They help develop one's personality, thanks to the numerous 'similar to life' situations that one experiences. 			
	iv. It helps develop leadership qualities too and fosters a sense of team spirit.v. Playing helps in the development of social skills.			
	vi. It fosters collective thinking and harnesses your planning and delegation skills too.			
	vii. Sports inculcate a sense of competition and help you deal with success and failure with a positive spirit.	7M	CO4	L3
b	Put the verbs in correct form.			
	 i. I relived to see that my friend had corrected the draft. (be) ii. They always coffee at breakfast. (drink) 			
	iii. Sheldon the process of strategic management. (describe)			
	iv. Smriti five kilometers a day for the last three years. (walk)	CN 4	004	10
	v. He here all his life. (live) UNIT–IV	5M	CO4	L3
8.	What was Muhammad Yunus's idea of a "micro-credit model"? What major			
0.	changes did it bring in the lives of Bangladeshi women?	12M	CO1	L4
	OR			
9.	Prepare an analytical essay on "Income Inequality: It's Causes and Consequences."	12M	CO4	L4
10.	Correct the following sentences and rewrite them.			
	a) She said that she will come home on Sunday.			
	b) The place is not as bad like it looks.			
	c) The management compensated him the loss.			
	 d) He has too much proudness to ask for help. a) The war lasted almost hundred years 			
	e) The war lasted almost hundred years.f) They were shocked over the sight of the destruction.			
	g) The burglar got in by the window besides the door.			
	h) They have left for Bombay yesterday.			
	i) He is driving too fastly.			
	j) My sister always worked hardly.			
	k) When did they arrived?I) I. Suppose if it rains, where shall we go?	12M	CO3	L3
	OR	12111	000	LU
11.	Narrate the inspiring story of Mrinalini Sarabhai and describe the left by her			
	for future generation.	12M	CO4	L4