		210	210	210	210	210	210
_	Poglis	stration No :				٦	
r	regis	Stration No .					
Γota	a⊧Nu	ımber of Pages : 02	210	210	210	210 <b>PΔ</b>	B.Tech210 C1A101
		1		Back Examination	2018-19	1.7	CIAICI
	CHE	BRANC M, CIVIL, CSE, ECE	CH : AEIE, AE	RO, AUTO, BIOM	•	•	FAC
		NUTECH, MECH, M	ETTA, MINE	RAL, MINING, MM		, ,	•
	210	210	210 <b>M</b>	ime : 3 Hours ax Marks : 100 .CODE : E747	210	210	210
A	nsw	er Question No.1 (P	art-1) which	_	ny eight from	Part-II and an	ıy two
			ures in the ri	ght hand margin i			
		(atomic ma	ass: H = 1.00	78u; F = 17.9984	u, Cl = 35.998	39u ).	
Q1	210	Short Answer Type	210 Questions (Ar	Part- P10 nswer All-10)	210	210	210 <b>(2 x 10)</b>
	a)	Two energy level are to joule.			cm -1. Covert	this energy in	,
	b)	Acetone absorb at 27	9nm in hexane	where as values λ	max of it in wat	er is 264.5nm.	
	c)	Explain. What do you mean b	y linear operat	or? Write down the	essential condi	tions for linear	
	2 <b>d</b> )	operator. Calculate reduced ma	ass of HF mole	cule. 210	210	210	210
	e) f)	Define eutectic point. Define 1D nanomater					
	٠.		iais with one c	kampic of it.			
	g)	What is chromizing?		•			
	9) h) i)	What is chromizing? What do you mean by What do you mean by					
	h)	What do you mean by	y calorific value	of fuel?			
02	h) i)	What do you mean by What do you mean by Why fusion curve of in	y calorific value ce has negative	e of fuel? e slope? Part- II	210 ny Eight out of	210 <b>Twelve)</b>	
<b>Q</b> 2	h) i) j)	What do you mean by What do you mean by Why fusion curve of its Pocused-Short Answ What do you mean	y calorific value ce has negative 210 wer Type Que by Eigen valu	e of fuel? e slope? Part- II <sub>-10</sub> stions- (Answer Ar ue and Eigen functi	y Eight out of	Twelve)	(6 x 8) 210
Q2	h) i) j) 210 a) b)	What do you mean by What do you mean by Why fusion curve of it.  Focused-Short Answ What do you mean equation is an Eigen Draw phase diagram.	y calorific value ce has negative 210 wer Type Que by Eigen value value problem. of water syster	e of fuel? e slope? Part- IL <sub>10</sub> stions- (Answer Ar ue and Eigen functi m. Discuss the curve	ny Eight out of on? Prove that s and triple poi	Twelve) at Schrödinger nt of system.	
Q2	h) i) j) 210 a)	What do you mean by What do you mean by Why fusion curve of its Pocused-Short Answ What do you mean equation is an Eigen	y calorific value ce has negative 210 wer Type Que by Eigen value value problem. of water syster	e of fuel? e slope? Part- IL <sub>10</sub> stions- (Answer Ar ue and Eigen functi m. Discuss the curve	ny Eight out of on? Prove that s and triple poi	Twelve) at Schrödinger nt of system.	
Q2	h) i) j) 210 a) b) c) d)	What do you mean by What do you mean by Why fusion curve of it.  Focused-Short Answ What do you mean equation is an Eigen Draw phase diagram What do you mean by UV spectroscopy. The Vibrational specific	y calorific value the has negative  210  wer Type Que by Eigen value value problem. of water system y auxochrome	e of fuel? e slope?  Part- IL stions- (Answer Ar ue and Eigen functi m. Discuss the curve and chromophore? E	ny Eight out of on? Prove that s and triple poi discuss various	Twelve) at Schrödinger at of system. type of shift in tered 2,885cm	(6 x 8)
Q2	h) i) j) 210 a) b) c) d) 210 e)	What do you mean by What do you mean by Why fusion curve of it.  Focused-Short Answ What do you mean equation is an Eigen Draw phase diagram What do you mean by UV spectroscopy. The Vibrational special Calculte the force con Describe the use of new Young The Vibrational special Calculte the force con Describe the use of new Young The Vibrational special Calculte the force con Describe the use of new Young The Vibrational Special Calculte the force of Describe the use of new Young The Vibrational Special Calculte the force of the Vibrational Special Calculte the Special Calculte The Vibrational Calculte The	y calorific value ce has negative wer Type Que by Eigen value problem. of water system auxochrome trum of HCl gaponstant of the banomaterials in	e of fuel? e slope?  Part- II-10 stions- (Answer Arue and Eigen function. Discuss the curve and chromophore? Each in absorption of HCI molecules photovoltaic solar of	ny Eight out of on? Prove that is and triple poiloiscuss various otton band cent is 210 cells.	r Twelve) at Schrödinger at of system. type of shift in tered 2,885cm	(6 x 8)
Q2	h) i) j) 210 a) b) c) d) 210	What do you mean by What do you mean by Why fusion curve of it.  Focused-Short Answ What do you mean equation is an Eigen Draw phase diagram What do you mean by UV spectroscopy. The Vibrational spect 1. Calculte the force of Describe the use of n What do you mean by A coal sample has for equation is an expectation of the coal sample has for equation of	ver Type Queby Eigen value problem. of water system auxochrome water auxochrome water anomaterials in catalytic cracillowing compositions of the best	Part- Il-10 stions- (Answer Artice and Eigen functions the curve and chromophore? Described and of HQI molecules photovoltaic solar of king? Discuss moving the color of the c	s and triple poi Discuss various otion band cent ells. g –bed catalytic 90%; O = 3.00 found to be 8	Twelve) at Schrödinger at Schrödinge	(6 x 8)
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Q2	h) i) j) 210 a) b) c) d) 210 e) f) g)	What do you mean by What do you mean by Why fusion curve of it.  Focused-Short Answ What do you mean equation is an Eigen Draw phase diagram What do you mean by UV spectroscopy. The Vibrational spect 1. Calculte the force con Describe the use of now What do you mean by A coal sample has for a coal sample has for a coal sample has for a coal sample percentage Discuss preparation and Discuss mechanism of the coal sample has for a coal sam	wer Type Queby Eigen value problem. of water system auxochrome anomaterials in catalytic cracillowing composition of hydrogen, and use of problem of wet corrosion.	Part- II-10 stions- (Answer Artice and Eigen functions and Eigen functions. Discuss the curve and chromophore? Even before the condition of HCI molecules and photovoltaic solar of king? Discuss moving sition by weight: C = c value of coal was and HCV and GCV of ducer gas and water in term of evolving	s and triple poi Discuss various otion band cent ells. g –bed catalytic 90%; O = 3.00 found to be 8 f coal. gas of hydrogen ga	Twelve) at Schrödinger at Schrödinger at Schrödinger at Schrödinger at Schrödinger at September 1 at Schrödinger at September 1 at Schrödinger at Schrödinge	(6 x 8)
Q2	h) i) j) 210 a) b) c) d) 210 e) f) g)	What do you mean by What do you mean by Why fusion curve of it.  Focused-Short Answ What do you mean equation is an Eigen Draw phase diagram What do you mean by UV spectroscopy. The Vibrational special Calculte the force con Describe the use of now What do you mean by A coal sample has for equation and as a sample has for equation and as a sample paration as calculate percentage.	wer Type Queby Eigen value problem. of water system of HCl gar auxochrome anomaterials in catalytic cracillowing compost Net calorific of hydrogen, and use of problem of wet corrosion power alcoholes.	Part- II-10 stions- (Answer Artice and Eigen functions and Eigen functions. Discuss the curve and chromophore? Every and of HCI molecules are photovoltaic solar of the control of the con	s and triple points of the second to be second triple pase of hydrogen gas of hydrogen gas and disadva	Twelve) at Schrödinger at Schrödinge	(6 x 8) 210 210

210	2	210		210	210	210	210	210	210		
210	Q3 210		Part-III  Long Answer Type Questions (Answer Any Two out of Four)  State and explain Beer – Lambert's law? Explain various type of electronic transition occurs in UV Spectroscopy with example.  210  210  Set up and solve the Schrödinger wave equation for a particle in an infinite one –								
	-		Dimensional box With potential box with zero inside the box . Normalized the wave function.								
	Q5		What are v of each frac		otained during d	istillation of petro	leum ? Mention	the use (16)			
210	<b>Q</b> 6	210	Give an ac details.	count of any eig	ht factors that ir	offluence the rate	of corrosion .Ex	xplain in (16)	210		
210	2	210		210	210	210	210	210	210		
210	2	210		210	210	210	210	210	210		
210	2	210		210	210	210	210	210	210		
210	2	210		210	210	210	210	210	210		
210	2	210		210	210	210	210	210	210		