Registra	ation No :													
Total Nu	Total Number of Pages : 02 B.Tech.													
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	2 nd Semester Regular / Back Examination 2017-18													
APPLIED CHEMISTRY														
BRANCH : AEIE, AERO, AUTO, BIOMED, BIOTECH, CHEM, CIVIL, CSE, ECE, EEE, EIE, ELECTRICAL, ENV, ETC, FAT, IEE, IT, MANUFAC,														
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Max Marks: 100														
210	210		210	Q.	COD	E : C	802		21			210		21
	Answe	r Part-A	which	is co	mpu	ılsor	y and	d any	/ fou	r fror	n Part	t-B.		
	Th	ne figure		_			_				rks.			
Answer all parts of a question at a place.														
Part – A (Answer all the questions)														
Q1	Answer the									l up t	vpe :		(2 x 10)	
210 a)	Answer the following questions: multiple type or dash fill up type: In anodic metal coating, the base metal is coated with 210 2										210	,	21	
b)	Which of the following molecules does not absorb microwave radiation?													
,	(i) H ₂ O		,			CO_2								
	(iii) CO				(iv)	All of	f the a	above	;					
c)	. ,													
	(i) Coal				٠,	Natu	_	IS						
	(iii) Kerosen				` '	Woo								
₂₁₀ d)												210		21
e)	The shifting of UV-visible absorption peak towards shorter wavelength is													
	known as: (i) Bathoch	romic shi	ft		(ii)	Нуре	rchro	mic s	hift					
	(iii) Hypsoch													
f)	(iii) Hypsochromic shift(iv) Hypochromic shiftf) Which of the following is NOT an organometallic compound?													
-,	(i) $(C_2H_5)_2$ Z	-	, .0		_	(C ₅ H		-	aa					
	(iii) Ni(CO) ₄					B(O								
²¹⁰ g)	The expression for Hamiltonian operator (Ĥ) used in Schrödinger equation											ion is		21
	 •													
h)	The IUPAC name of the compound, Rh Cl (PPh ₃) ₃ is													
i)	In the phase diagram for sulfur system, the metastable triple point represents the equilibrium between, and													
j)	The number of phases and components present in a system of saturated solution of sugar are and										rated			
210	210		210			210			21			210		2
Q2	Answer the	following	g ques	tions:	Sho	rt ans	swer	type	:				(2 x 10)	
a)														
b)	Complete combustion of 5 kg of carbon produces 37,750 kcal of heat. Calculate the HCV.													
c)	Ocean-going ships undergo differential aeration corrosion but ships sunk under the ocean water for many years does not. Explain.													
210 d)	Write any two differences between anodic metal coating and cathodic metal coating.												21	
e)	State Beer-L	.ambert's	law and	d write	e the	equat	ion.							

Calculate the wavenumber in cm⁻¹ and m⁻¹ for the radiation, whose