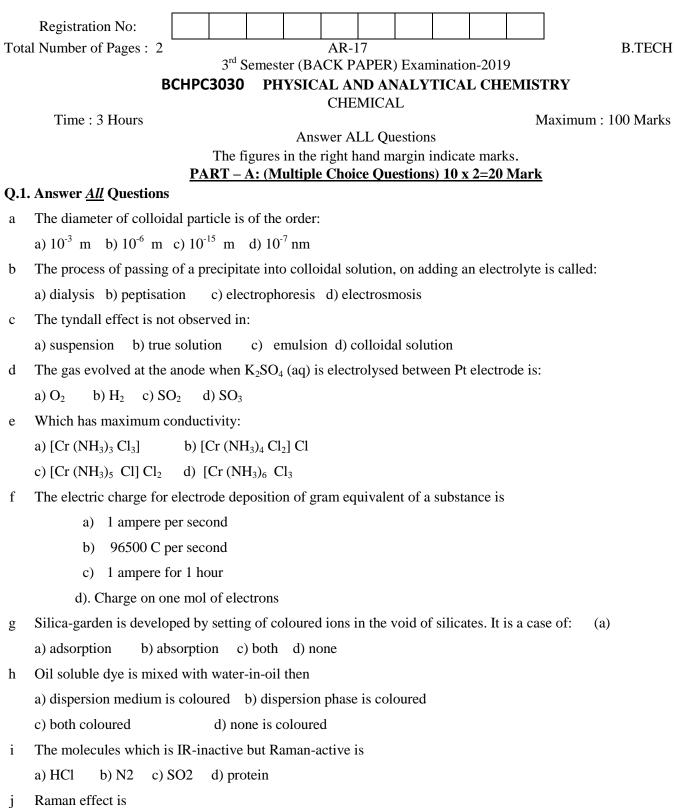


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a) absorption of light b) emission of light c) elastic scattering of light d) inelastic scattering of light

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PART – B: (Short Answer Questions) 10X2=20 Marks

Q.2. Answer ALL questions

- a Differentiate between hydrophilic and hydrophobic system?
- b Write two properties of colloidal system.
- c What should be the condition in terms of free Gibbs Energy, Entropy change and enthalpy change for spontaneous mixing?
- d What is the difference between metal and stress corrosion?
- e Which factor does effect the rate of corrosion mention them?
- f What are the types of Batteries?
- g Define the term absorption?
- h Derive the Langmuir adsorption isotherm?
- i Define molecular spectroscopy?
- j Define Atomic and molecular spectra?

PART - C: (Long Answer Questions) 4X15=60 Marks

Answer <u>ALL</u> questions

Q.3	3	
a	Write in detail on electrophoresis ?	10
b	Write the preparation of gels?	5
	OR	
с	Explain colligative properties in dilute solution?	10
d	Write the measurement of lowering of vapour pressure by static method?	5
Q.4		
a	Mention principle of batteries?	8
b	Mention the advantage of fuel cells?	7
	OR	
с	Explain about Lead storage battery?	7
d	Explain about Nickel-cadmium battery?	8
Q.5	i i i i i i i i i i i i i i i i i i i	
a	Explain Langmuir theory of adsorption?	10
b	Explain shortly about Freundlich Isotherm?	5
	OR	
с	What are the applications of Adsorption?	5
d	What are the difference between physical adsorption and chemical adsorption?	10
Q.6		
a	What are the main components of mass spectroscopy?	5
b	Write about atomic absorption spectroscopy?	10
	OR	-
с	What are the components of atomic absorption spectroscopy?	5
d	Write about Emission spectroscopy?	10
	==0==	10