FE/F.Y.B.Tech. (All Branches) (Part-I) (Sem-I&II) Oct./Nov. 2021 Examination ENGINEERING CHEMISTRY (CBCS) Sub. Code: 72507/71817/59939

Day and Date: Tuesday, 22-03-2022

Total Marks: 50

Time: 02.00 pm to 03.00 pm

Answer Key

			Correct Option
Q. 1)	What is Total hardness of water sample containing Ca(HCO ₃) ₂ =81ppm		D
Q. 1)	MgCO ₃ =73ppm,CaCl ₂ =55.5ppm,MgCl ₂ =47.5ppm		
	A)57.54ppm	B)58.11ppm	
	C)60.20ppm	D)200ppm	
Q. 2)	Precipitate formed inside the boiler is hard adherent coating it is known as		А
	A) Scale	B) Foaming	
	C) Sludge	D) Priming	
Q.3)	The goal of Green Chemistry is to design process which result inof raw material so that it gets maximum desire product.		С
	A)Minimum utilization	B) low utilization	
	C) Maximum utilization	D) All of the above	
Q. 4)	What is Non carbonate hardness of water sample containing		А
	Ca(HCO ₃) ₂ =41ppm		
	MgCO ₃ =44ppm,CaCl ₂ =27ppm,CaSo ₄ =26ppm.		
	A)43.44ppm	B)125 ppm	
	C)45.11ppm	D)200ppm	
Q. 5)	Addition of 1% Carbon to Iron increases strength of Iron by		А
	A) 10 times greater	B) 15 times greater	
	C) 10 times less	D) None of the above	
Q. 6)	Single beam spectrophotometer measures		C
	A)absorbance	B)radiation	
	C)light intensity	D)none of the above	
Q. 7)	Styrene butadiene rubber is formed by		В
	A)condensation polymerization	B)co-polymerization	
	C) addition polymerization	D)None of these	
Q. 8)	Paper chromatography istype of chromatography		В
	A)solid-liquid	B)liquid-liquid	
	C)solid -gas	D)Gas-liquid	
Q. 9)	is the alloy of Aluminium		D
	A)Nichrome	B)Iron	
	1	· · · · · · · · · · · · · · · · · · ·	

	C) Bronze	D)Duralumin		
Q. 10)	is the unit of hardness.		В	
	A) Cal/gm	B) Clark degree		
	C) K cal/m3	D) British Thermal Unit.		
			Correct	
			Option	
Q. 11)	Thermo-softening plastics have following type of structure		D	
	A) 2D	B) 3D		
	C) 2D & 3D	D) Linear		
Q. 12)	Styrene butadiene rubber is formed by		В	
	A)condensation polymerization	B)co-polymerization		
	C) addition polymerization	D)none of the above		
Q.13)	Calorific Value of solid fuel is		С	
	A)Highest	B)Medium		
	C) Lowest	D)None of these		
Q. 14)	The example of thermosetting plastic is		В	
	A)Polyethylene	B)Bakelite		
	C)Epoxy Resin	D)Polystyrene		
Q. 15)				
	A)Highest	B)Medium		
	C) Lowest	D)None of these		
Q. 16)	Gross calorific value is measured by		А	
	A) Collecting condensate	B) Allowing to escape water vapour	1	
	C)Cooling fuels	D)Mixing Fuel		
Q. 17)	The high carbon steel is used in making		А	
	A)cutting tools	B)roofing sheets		
	C)structures	D)fans		
Q. 18)	Specific gravity of solid fuel is		А	
	A)Highest	B)Medium		
	C) Lowest	D)None of these		
Q.19)	Green chemistry is called as			
	A) Organic chemistry	B)Inorganic Chemistry		
	C) Sustainable Chemistry	D)None of the above		
Q. 20)	is the non ferrous alloy of copper with zinc			
	A) Nichrome	B)Brasses		
	C) Bronze	D) Alnico		
			Option	
Q. 21)	The Hardness of water sample determined bymethod			
	A) titration	B) chromatography		
	C) spectrophotometry	D) gravimetric	B	
Q. 22)	Corrosion occurs always at			
	A)Cathode	B)Anode		
	C)Electrode	D)None of these		
Q.23)	The electrolyte used during electroplating is			
	A) salt solution	B)salt solution of coating metal		

	C)water	D)acid	
Q. 24)	French degree is the unit of		С
	A) Total solids	B) Acidity	
	C) Hardness	D) Water	
Q. 25)	Absorption of O ₂ mechanism is the type of		В
	A)atmospheric corrosion	B)immersed corrosion	
	C)oxidation corrosion	D)erosion	