B.Tech. SEM -I (Chemical) 2014 Course (CBCS) : SUMMER - 2019 SUBJECT : CHEMICAL ENGINEERING MATERIALS

Day Date	: Wedr	nesday 5/2 0 19	S-2019-2530	Time: 10.00 AM TO 01 Max. Marks: 60	.00 PM	
N.B. :	1) 2)	Draw neat label	e compulsory . ght indicate full marks . ed diagram wherever is nec e data if required .	essary.		
Q. 1	Which are important technological properties? How these technological properties affect material selection and applicability? OR				(10)	
			modification of properties on? How does it help to contr	? Which are the methods of rol properties?	(10)	
Q. 2	a)	Which are speapplicability?	ecial alloy steels? Explain th	eir composition, properties and	(05)	
	b)	* *	portant properties of nickel	? How they affect applicability	(05)	
		OR				
	a)	_	roperty improvement take it affect their applicability?	place by formation of iron-	(05)	
	b)	Which import	ant properties of copper? Ho	ow it affects their applicability?	(05)	
Q. 3		What is the basis for selection of polymeric materials for equipment lining? Explain them in details. OR				
		t is coating? What is place during co	hat is the importance of coa	ting? How surface preparation	(10)	
Q. 4	a)	What is vitreo	ous silica? Which are their pr	operties and applications?	(05)	
	b)		ent-concrete? How does the ement-concrete formation?	improvement in property take	(05)	
	a)	What are refapplicability?		properties? How they affect	(05)	
	b)		ass? Explain the correla	tion between property and	(05)	
Q. 5	a)			material failure? How does it	(05)	
	b)			rrosion? How does it affect	(05)	
	a)	What is stress	? How does it lead to material	al failure?	(05)	
	b)		methods of corrosion attack		(05)	
Q. 6	How does the glass and ceramic lining formed? What are its properties and applicability?				(10)	
	OR What is the importance of polymer lining? How it is formed? What are its (1)				(10)	
	What is the importance of polymer lining? How it is formed? What are its properties?				(10)	

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