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Tim 1. 2. 3. 4. 5. 6. 7. 8. 9.	what is the	Civil E. CY 6251 — ENGINEE (Common to all branches (Regula urs Answer A	Semester Ingineering RING CHEMIS except Marine E tions 2013) LL questions. $0 \times 2 = 20$ marks	ER/DECEMBER 20 FRY — II Engineering) Maximum: 10			
1. 2. 3. 4. 5. 6. 7. 8.	what is the	Second Civil End CY 6251 — ENGINEE (Common to all branches (Regula urs Answer Al PART A — (10) the principle of reverse osn	Semester Ingineering RING CHEMIS except Marine E tions 2013) LL questions. $0 \times 2 = 20$ marks	FRY — II Engineering) Maximum: 10			
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3. 4. 5. 6. 7. 8. 9.		he causes for scale and sl	nosis.				
4. 5. 6. 7. 8. 9.	Write the		udges in boiler.				
5. 6. 7. 8. 9.		significance of electroless	plating.				
6. 7. 8. 9.	What is co	prosion?					
7. - 8. 9.	State the	basic principle of fuel cell					
- 8. 9.	What are	the types of batteries?					
9.	State diffe	erent types of refractory n	naterials.				
	Give the classification of abrasives.						
10.	Write the composition of CNG.						
	Define cal	orific value of fuel.					
		PART B — (5	× 16 = 80 marks	,			
11.	(a) (i)	Identify the reasons for			(6)		
	(ii)	Describe the internal tre			(10)		
			Or				
	(b) (i)	Explain the zeolite proce			(6)		
		Discuss the demineralis	ation process of v	water treatment.	(10)		
	(ii)						

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	12.	(a)	(i)	Derive Nernst equation for electrode potential. Mention its	
				applications. (10)	
			(ii)	Describe sacrificial anodic protection of corrosion. (6)	
				Or	
		(b)	(i)	Explain in detail about the causes of corrosion and factors connected with metal which influence the rate of corrosion of metal. (10)	
			(ii)	Discuss about Galvanic corrosion. (6)	
	13.	(a)	(i)	Demonstrate the construction, working and application of lithium sulphur battery.	
			(ii)	Write a detailed note on breeder reactor. (8)	
				Or	
		(b)	(i)	Interpret the working principle of alkaline battery with a neat diagram. (8)	
			(ii)	Explain the method of conversion of nuclear energy to electrical energy in a nuclear reactor. (8)	
	14.	(a)	. (i)	Explain the setting and hardening of cements with reactions involved. (8)	
			-(ii)	Describe the manufacture and important properties of alumina bricks and carborundum. (8)	
				Or	
		(b)	(i)		
		(2)	(1)	Write the composition, properties and uses of soda and flint glasses. (8)	
			(ii)	Describe the determinations of Pyro metric Cone Equivalent (PCE) of refractories. (8)	
	15.	(a)	Expl	lain the Orsat's apparatus method used for flue gas analysis. (16)	
				Or	
		(b)	(i)	What is LPG? State its composition and applications. (6)	
			(ii)	Describe the proximate analysis of coal. (10)	
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