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Anna University Exams April / May 2017 – Regulation 2013
Rejinpaul.com Unique Important Questions – 2nd Semester BE/BTECH
CY6251 ENGINEERING CHEMISTRY II

UNIT I – V

1. What is meant by reverse osmosis. How will you purify the sea water by reverse osmosis
2. What are Zeolites? How do they function in removing the hardness of water
3. Discuss (a) boiler corrosion
4. Describe the demineralization process of water softening with neat diagram
5. Explain the following boiler troubles suggesting the remedial methods. (a) Sludge and scale formation (b) caustic embrittlement (c) Primming and foaming
6. How is water softened by Ion exchange method?
7. Discuss (a) aeration corrosion (b) galvanic corrosion
8. What is electroless plating? Write short notes on electroless nickel plating and discuss its applications
9. Discuss the sacrificial and anode methods of corrosion control and impressed current method
10. Derive Nernst's equation
11. Explain the corrosion control by material selection and design
12. Explain with a neat diagram the parts and functions of a nuclear reactor
13. Explain the working of hydrogen-oxygen fuel cell
14. Discuss about solar batteries and its application
15. Explain the construction and working of Lead-acid battery
16. Discuss on lead accumulators. Explain the construction and functioning of a lead accumulator
17. Explain (a) breeder reactors (b) conversion of solar energy into electrical energy.
18. Explain the construction and working of H_2-O_2 fuel cell
19. How are silicon carbide prepared? Give its important properties and uses
20. What is glass? Discuss the manufacture of glass by pot furnace process
21. Discuss (a) refractoriness (b) PCE (c) RUL
22. Explain the classification of abrasive
23. What are the raw materials Portland cement? Describe the manufacture of cement
24. Explain Moh's scale of hardness
25. Explain the manufacture and important properties of alumina bricks and carborundum
26. Explain setting and hardening of cements with the reactions involved
27. Explain flue gas analysis by ORSAT method
28. Discuss the manufacture of petrol by Bergius process
29. Discuss the manufacture of water gas
30. Discuss the analysis of C, H & N in coal by ultimate method
31. Calculate the volume of air required for complete combustion of 1 m^3 of gaseous fuel having the composition: $CO = 46\%$, $CH_4 = 10\%$, $H_2 = 4\%$, $C_2H_2 = 2\%$, $N_2 = 1\%$ and the remaining being CO_2
32. What is metallurgical coke? Describe the process of its manufacture
33. How the flue gas analysis carried out? Explain with neat diagram

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