

Question Bank

Program: CH

Semester: Third

Name of course: Technology of Inorganic Material

Course code: 22314

Unit Test 2

Chapter 4 - Potassium based fertiliser and Chlor-Alkali material

2 marks questions

1. Write industrial uses of chlorine and caustic (two each).
2. Write calcination reaction involved in soda ash process.
3. Write overall reaction of nelson cell.
4. Define denuding operation in mercury cell.

4 marks questions

5. Describe manufacturing of mixed fertiliser.
6. Draw neat sketch of nelson cell.
7. Draw neat sketch of mercury cell.
8. Write cell notation of nelson cell with reactions.
9. Write cell notation of mercury cell with reactions.
10. Draw PFD of soda ash manufacturing process.

Chapter 5 - Cement and refractories

2 marks questions

11. List four types of cement.
12. Write the names of raw materials used in cement.
13. List the used of refractories.

4 marks questions

14. Describe acidic and basic refractory.
15. Explain manufacturing of plaster of Paris.
16. Draw PFD for manufacturing of cement by dry process.
17. Differentiate between dry and wet process of cement manufacturing.

Chapter 6 – Industrial gases

2 marks questions

18. State Lindes principle.
19. State Claudes principle.
20. List industrial uses of hydrogen and acetylene (two each)

4 marks questions

21. Draw PFD of hydrogen from water gas.
22. Explain manufacturing of acetylene form calcium carbide.
23. Describe manufacturing of Oxygen and Nitrogen by Lindes process.
24. Explain manufacturing of carbon dioxide using flue gas.
25. Explain working of gas producer.