

Unit test -11

Chapter 3: Processes in refinery (09marks)

2 marks question

1. Define alkylate. Write down reactions involved in it.
2. List the common gaseous emissions from petroleum refinery?
3. List the types of water pollution
4. List the characteristics of treated effluent from petroleum refinery.

4 marks question:

5. Explain any one method of oil removal from wastewater.
6. Explain how solid wastes are disposed from a refinery.
7. Explain how organic content is removed in petroleum refinery

Chapter 2: Petrochemicals (from C1 to C3) (16 marks)

2 marks question

8. List 2 chemicals derived from C3 HC and their uses.
9. Give use (only one) of the following petrochemical
a. formaldehyde b. styrene c. Vinyl chloride d. Ethanol
10. Explain the process for the manufacture of acetaldehyde.

4 marks question:

11. Give the reaction involved in the formation of formaldehyde & styrene
12. Draw the flow sheet for the manufacturing of methanol.
13. Draw the flow sheet for the manufacturing of ethylene oxide.
14. Draw the flow sheet for the manufacturing of propylene oxide.
15. Explain the process for the manufacture of vinyl chloride with flow sheet
16. Give the reaction involved in the formation of ethylene oxide and propylene oxide

Chapter 3: Petrochemicals from C4 and aromatics (10marks)

2 marks question

17. List 2 chemicals derived from C4 HC and their uses
18. Give use (only one) of the following petrochemical
a. MTBE b. benzoic acid c. butadiene
19. Give the reaction involved in the formation of aniline
20. Give the reaction involved in the formation of benzoic acid

4 marks question:

21. Explain the UDEX process for the recovery of BTX.
22. Give the reaction involved in the formation of butadiene & aniline.
23. List out the products obtained from BTX and their any two uses.
24. Draw the flow sheet for the manufacture of aniline
25. Draw the flow sheet for the manufacture of benzoic acid.