Question Bank (G scheme)

Name of subject: PCT Unit Test: II
Subject code: 17651 Course: CH

Semester:VI

Chapter-3. Unit processes in refineries (18Marks)

3 marks question

- 1. What are the objectives of visbreaking
- 2. State the principle of catalytic reforming with reaction.
- 3. What is polymerization in refining operation? List the different methods of polymerization.
- 4. Draw the flow sheet for the esterification process carried out in the petroleum refinery.
- 5. What is hydration? Write the reactions in the hydration process carried out in the petroleum refinery.

4 marks question

- 6. Explain delayed coking process with neat diagram.
- 7. Explain propane deasphaltation process with neat diagram.
- 8. Define alkylate. Write down reactions involved in it.
- 9. Explain two stage hydro cracking processes with neat flow diagram.
- 10. What are the common gaseous emissions from petroleum refinery?
- 11. Write any one method of oil removal from wastewater.
- 12. How solid wastes are disposed from a refinery.

Chapter-4. C1 to C4 and aromatic hydrocarbons (32Marks)

3 marks question

- 13. List 3 chemicals derived from C3 HC and their uses.
- 14. List 3 chemicals derived from C4 HC and their uses..
- 15. Write uses (only one)of the following petrochemical
 - a. formaldehyde b. styrene
 - c. MTBE
- 16. Explain the process for the manufacture of acetaldehyde.

4 marks question

- 17. Write down the reaction involved in the formation of formaldehyde & styrene
- 18. Draw the flow sheet for the manufacturing of methanol.
- 19. Draw the flow sheet for the manufacturing of ethylene oxide.
- 20. Draw the flow sheet for the manufacturing of propylene oxide.
- 21. Explain the udex process for the recovery of BTX.
- 22. Write down the reaction involved in the formation of butadiene & butyl acetate.
- 23. Give the uses of ethanol & acetaldehyde.

- 24. List out the products obtained from BTX and their any two uses.
- 25. Explain the process for the manufacture of ethanol.