25019346

QP CODE: 25019346

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS)) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Fourth Semester

B.Sc Chemistry Model III Petrochemicals

Core Course - CH4PCT06 - PETROLEUM INDUSTRIES IN INDIA

2017 Admission Onwards

A13CB8C7

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Give any two examples for conventional energy sources.
2. What is biogas?
3. What is nuclear fission?
4. List some major government companies engaged in refinery and marketing petroleum.
5. What is the full form of ONGC?
6. Point out some Indian petroleum reserves.
7. What is Ziegler catalyst?
8. Give two examples for polymerisation catalyst.
9. Mention two effects of air pollution.
10. Name the Greenhouse gases in the atmosphere.
11. Which reagent is used for the detection of chloride ions in water?
12. How does a catalytic converter eliminate pollution?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Name two conventional energy sources. Discuss their disadvantages.

14. How does solar energy works? Discuss the merits, demerits and challenges facing solar energy.

15. How does tidal energy work? Explain.

16. Discuss the development of petrochemical industry in India.

17. Summarize the difficulties encountered in Indian petro chemical industries.

18. Write briefly on reformation and reforming catalyst used in petrochemical industry.

19. Discuss briefly on refinery pollution.

20. Explain the different sources of sea water pollution and the effect on environment.

21. Briefly explain oil pollution and its effects.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Comment on energy crisis and alternative to it in the present scenario.

23. Briefly explain the general cost consideration about to start a petrochemical industry.

24. Write a note on different types of catalysts used in petroleum industry. Specifying their applications and catalytic activities.

25. What do you know about National standards of air and water pollution?

(2×10=20)