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- Cl.4 A) Answer any two of the following:
 - i) Define (a) calorific value (b) flash point. What is significance of Carbon Residue in the petroleum fuels?
 - ii) Explain the chromatographic methods for the organochlorine pesticide residue analysis.
 - iii) What the role of (a) Builders and (b) Complexing and Dispersing Agents in detergents.
 - iv) Give the importance of the Biodegradation of Insecticides and Pesticides.
 - B) Discuss the classification of pesticides according to toxicity.

OR

- B) What are the different fractions obtained from fractional distillation of crude oil?
 - Answer any four of the following: -

Q.5

- i) Write a note on Water softening process.
- ii) Discuss the two phase titration for determination of ionic surfactants.
- iii) Write note on ambient air quality.
- iv) Explain the role of Central pollution control Board in the pollution monitoring.
- v) What is the impact of the pesticide residue on the human health?
- vi) State properties of ideal fuel.
- vii) Explain the documentation procedure to be accomplished in mineral water industry.
- viii) Write a short note on Global warming.