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Vidya Prasarak Mandal's
ADVANCED STUDY CENTRE
C/o. B.N.Bandodkar College of Science, Thane.

POST GRADUATE DIPLOMA IN APPLIED ANALYTICAL CHEMISTRY
(Re-Examination (Sem-I) 2004-05)

Date: 27.04.2005

PAPER-III

Marks: 50

Note: All questions are compulsory.

- Q1. Define following (any 5). **10**
- | | |
|-------------|------------------------------|
| a) Accident | b) Flash Point |
| c) Hazard | d) Auto ignition temperature |
| e) Risk | f) LD50 |
| | g) Vapour density |
- Q2. A) What do you infer from following statements? (Solve any 2) **04**
- a) UEL of ethylene oxide is 100% v/v.
 - b) LD50 oral of rat pesticide A is 15 & that of pesticide B is 115 mg/kg body wt.
 - c) TLV of ammonia > TLV(odour) of ammonia.
- B) Draw an Emergency Management Plan for the Chemical Industry & explain the role & importance of each element of the plan. **06**
- OR
- B) Explain the different types of fire with examples. **06**
- Q3. A) a) What are the elements of Fire Triangle? Which element is added recently? **02**
- b) Explain any suitable portable fire extinguisher for laboratory. **03**
- B) Write a note on safety in laboratory. **05**
- Q4. a) Name various unit operations & unit Processes involved in chemical industry **04**
- b) What is Personal Protective Equipment? Name the various respiratory type of PPE & explain any one of them. **06**
- Q5. a) What is safety and why do we need it? **05**
- b) Which are the main elements of Emergency Management Plan? **05**