

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

POST GRADUATE DIPLOMA IN APPLIED ANALYTICAL CHEMISTRY
(1st Sem. Examination 2004-05)

Date: 05/11/2004

PAPER-III

Marks: 50

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- Q1 1) what is safety and why do we need it? 05
2) Which are the main elements of Emergency Management Plan? 05
- Q2 1) Name various unit operations & unit Processes involved in chemical industry 04
2) What safety precautions are recommended for Nitration or Polymerization reactions? 06
- OR
- 2) What is Personal Protective Equipment? Name the various respiratory type of PPE & explain any one of them. 06
- Q3 Define following (any 5). 10
a) Accident
b) Flash Point
c) Hazard
d) Auto ignition temperature
e) Risk
f) LD50
g) Vapour density
- Q4 1) a) What are the elements of Fire Triangle? Which element is added recently? 02
b) Explain any suitable portable fire extinguisher for laboratory. 03
2) Write a note on safety in laboratory. 05
- Q5 1) 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.
2) Draw an Emergency Management Plan for the Chemical Industry & explain the role & importance of each element of the plan. 06
- OR
- 2) Explain the different types of fire with examples. 06

Happy Diwali & Prosperous New Year!