

VPM's ADVANCED STUDY CENTRE
POST GRADUATE DIPLOMA IN APPLIED ANALYTICAL CHEMISTRY
FINAL EXAMINATION 2008-2009

Date: 08.05.2009 (5-8 pm)

PAPER – III

Marks: 100

SECTION - I

Write answers of two sections in two different answer sheets.

- Q.1) Write Short Answers for the following 10
i Define Water Pollution
ii Name Water Pollutants
iii What is Air Pollution?
iv What is Eutrophication of water?
v Name various types of soil
- Q.2) Answer Any Two of the following 10
i Give classification of Water Pollutants.
ii What is green house effect? Give its impact on global climate.
iii Discuss significance of water quality parameters:
(i)Ammonia (ii) Iron (iii) Total solids (iv) Acidity (v) Alkalinity
- Q.3) Answer Any Two briefly 10
i Describe in short Primary, secondary and tertiary procedures of sewage \ effluent treatment.
ii Discuss the sources of Soil Pollution in detail.
iii Write laboratory method for determination of hardness and dissolved oxygen.
- Q.4) Answer Any One from the following 10
i Write laboratory method of B.O.D. and C.O.D. in detail.
ii Describe Acid Rain in detail.
- Q.5) Write Notes on Any Two from the following. 10
i Composition of Soil.
ii Photochemical Smog.
iii Physical Water quality parameters.

SECTION - II (use another answer sheet)

- Q.1] Define the following: (any 5) 05
i)Accident ii)Flash point iii)TLV
iv)Vapour density v)PPE vi)Hazards
- Q.2] Write Short Notes on (Any 5) 25
i)Disorders due to heat
ii)Defective illumination
iii)Auditory ill effects
iv) Defective Colour Scheme
v) Radiation
vi) Safety in laboratory
vii) MSDS
- Q.3] Design Emergency Management Plan for Chemical Industry. Explain the details about Identification, evaluation & control of hazards in Industries. 10
- Q.4] What is Accident Prevention? Explain the engineering methods used by industries to reduce the accidents? 10