

VPM'S ADVANCE STUDY CENTRE, THANE
DIPLOMA IN APPLIED ANALYTICAL CHEMISTRY
B. N. BANDODKAR COLLEGE OF SCIENCE, THANE
PAPER-I

Date: 27th April 2016

Marks: 100

INSTRCUTIONS FOR THE CANDIDATES

1. ALL THE QUESTIONS ARE COMPULSARY.
 2. TIME DURATION IS OF 3 Hrs.
 3. STUDENTS ARE NOT ALLOWED TO USE THEIR MOBILES DURING THE EXAM PERIOD.
 4. USE OF SCIENTIFIC CALCULATOR IS ALLOWED.
 5. STUDETNs ARE REQUESTED TO WRITE EACH SECTION ON SEPRATE ANSWER SHEET.
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Section-I

Q. 1. Attempt any Four of the following. (15)

- A. Explain the different sources of water in detail.
- B. Define Air Pollution. In what respect Air pollution affects the living environment?
- C. Explain the concept of green house effect and global warming.
- D. Explain the different parameters which are responsible for Air pollution.
- E. Describe the terms BOD, COD and DO in brief.
- F. What is acid rain and how it is caused? Explain with example.
- G. Describe various regions of atmosphere.

Q. 2. Attempt any Three of the following. (15)

- A. Considering the area near your home as target, give some measures to reduce water pollution and possible ways for conservation of water.
- B. Write a note on hazardous incidences occurred in world and how it affected the living being?
- C. Write a note on soil pollution and how it affects the agricultural growth.
- D. Define various parameters which determine the quality of drinking water.
- E. Give methods used in sewage treatment plant?
- F. Give remedial measures for the control of air pollution.

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Q. 3. Choose any option out of the following. (10)

- 1) **1) Acid rain is infact a cocktail of.....**
 - a) H_2SO_4 and HNO_3
 - b) H_2SO_4 and Water
 - c) H_2SO_4 and HCl
 - d) None of the above

- 2) **The term Green House effect was first coined by.....**
 - a) E. A. Keller
 - b) J. Fourier
 - c) D.B. Botkin
 - d) All of the above

- 3) **CO gas mainly reacts with Haemoglobin of the.....**
 - a) R.B.C
 - b) WBC
 - c) Both are correct
 - d) Both are incorrect

- 4) **The main cause for the serious damage of TajMahal is.....**
 - a) Water pollution
 - b) Soil Pollution
 - c) All are correct
 - d) Air pollution due to Mathura refinery

- 5) **Killer Smog in 1956 was found in**
 - a) New-york
 - b) London
 - c) California
 - d) Beijing

- 6) **National Environmental Engineering Research Institute is located in.....**
 - a) Mumbai
 - b) Pune
 - c) Nagpur
 - d) Delhi

- 7) **World Earth day is celebrated on.....**
 - a) 14 Feb.
 - b) 22 April
 - c) 3 May
 - d) 1 January

- 8) **The Principle layers of atmosphere are**
 - a) Exosphere
 - b) Stratosphere
 - c) Thermosphere
 - d) All of the above

- 9) **In the atmosphere of dry air, percentage of oxygen is**
 - a) 20.95 %
 - b) 78 %
 - c) 48 %
 - d) 39 %

- 10) **Liquid water is present on**
 - a) 50 % of the earth's surface
 - b) 71 % of the earth's surface
 - c) 30 % of the earth's surface
 - d) 60 % of the earth's surface