

C 40427

(Pages 2)

Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2013

(CCSS)

Chemistry

CH6 B20 (E3)—ENVIRONMENTAL CHEMISTRY

Time : Three Hours

Maximum : 30 Weightage

I. Answer all *twelve* questions. Choose the correct answer from the following :—

1 Identify the bio degradable waste :

- (a) Glass. (b) Banana peel.  
(c) Plastic. (d) Copper metal pieces.

2 Disturbance in the equilibrium conditions of air is called :

- (a) Air pollution. (b) Tropospheric pollution.  
(c) Air gutter. (d) Air quality.

3 The Earth summit was held in 1992 at :

- (a) Rio de Janeiro. (b) Kyoto.  
(c) Delhi. (d) Beijing.

4 Surface active agents are called :

- (a) Bacteria. (b) Virus.  
(c) Pathogens. (d) Surfactants.

Fill in the blanks of the following :—

- 5 \_\_\_\_\_ is an international NGO associated with exposing, the whale hunting.  
6 \_\_\_\_\_ gas is responsible for Ozone layer depletion.  
7 \_\_\_\_\_ is the disease caused by Mercury poisoning.  
8 Excessive acid content in rain water is called \_\_\_\_\_.

Answer the following in single word/ words :—

- 9 Name the disease caused by the excess intake of cadmium metal in human beings.  
10 What are the components present in smog ?

Turn over

- 11 A BOD value of 1 ppm is the characteristic of a type of water. Mention the type of water.
- 12 Which natural resource in Plachimada was over exploited by the MNC?

(12 × ¼ = 3)

II. Short answer type questions. Answer all *nine* questions :

- 13 What is Eutrophication process ?
- 14 Identify the type of materials which cause turbidity in water.
- 15 Suggest one alternative refrigerant.
- 16 Which is the major component in Biogas ?
- 17 Mention the DO value of good quality of water.
- 18 What is Chipko Andolan ?
- 19 What is meant by aerobic treatment of waste ?
- 20 Suggest one method of disposal of solid waste.
- 21 In which part of the atmosphere, electrically charged particles called "ions" are present?

(9 × 1 = 9)

III. Short essay or paragraph questions. Answer any *five* questions from seven :

- 22 What are the factors affecting ground water pollution ?
- 23 What are the detrimental effects of thermal pollution ?
- 24 How would you classify the solid wastes ?
- 25 What are the sources of water pollution ?
- 26 Write a short note on marine pollution.
- 27 Briefly discuss the structure of earth's atmosphere.
- 28 Write a brief note on ozone and its importance.

(5 × 2 = 10 weight)

IV. Essay questions. Answer any *two* questions :

- 29 Discuss the properties of sewage. What is the purpose of sewage treatment ?
- 30 Name four major gases responsible for the greenhouse effect. In what way these gases contribute to climate change ?
- 31 Discuss how the Nitrogen concentration in the globe is maintained.

(2 × 4 = 8 weight)