

C 80051

(Pages : 2)

Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2015

(UG-CCSS)

Elective Course

Chemistry

CH 6B 20(E3)—ENVIRONMENTAL CHEMISTRY

Time : Three Hours

Maximum : 30 Weightage

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

1 What is meant by RSPM ?

- (a) Recovery suspended particulate matter.
- (b) Respirable Suspended Particulate Matters.
- (c) Resolving particulate Matter.
- (d) Responsible Particulate Matter.

2 High intake of Lead in human being causes :

- (a) Retarded brain growth in children.
- (b) Blood poisoning.
- (c) Disturbance in the equilibrium conditions of oxygen in blood.
- (d) Muscular fatigue.

3 The Kyoto Protocol was an agreement on reduction of which one of the following ?

- (a) Green house gases.
- (b) Hazardous waste.
- (c) CFCs.
- (d) RA substances.

4 The Plachimada Agitation is against the overexploitation of :

- (a) Forest.
- (b) water.
- (c) River sand.
- (d) Ocean resources.

Fill in the blanks of the following :—

- 5 The high content of fluoride in water causes a disease called _____.
- 6 The bacteria in sewage causing disease to man and animals is _____.
- 7 The disease caused by Cadmium poisoning is _____.
- 8 Acid rain in soil changes the _____ value of soil.

Turn over

Answer the following in single word/words :

- 9 Name any *two* non-biodegradable solid wastes.
- 10 Define Most Probable Number.
- 11 What is the BOD value of Potable water ?
- 12 Name any *one* NGO working for Environmental Protection in India.

(12 × ¼ = 3 weig

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

- 13 What are industrial effluents ?
- 14 What type of materials cause turbidity in water ?
- 15 Name an alternative refrigerant developed in India.
- 16 Name any *two* biochemical cycles.
- 17 What is the DO value of good quality of water ?
- 18 Suggest any *two* methods of sewage water treatment.
- 19 What is meant by hydrological cycle ?
- 20 What is meant by land fill method of solid waste disposal ?
- 21 Name the important segments of the environment.

(9 × 1 = 9 weig

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

- 22 What are the factors affecting ground water pollution ?
- 23 What is Green House effect ? Explain.
- 24 Distinguish between COD and BOD.
- 25 Suggest any *four* methods to control air pollution.
- 26 Briefly explain Silent valley movement.
- 27 Briefly discuss the structure of earth's atmosphere.
- 28 Write a brief note on ozone and its importance.

(5 × 2 = 10 weig

IV. Essay questions. Answer *two* questions from three :

- 29 Discuss the various types of solid wastes and their management.
- 30 Discuss the various Water quality parameters :
 - (a) DO ;
 - (b) BOD ;
 - (c) COD ;
 - (d) Alkalinity.
- 31 What are agriculture discharge ? How soaps and detergents degrade the water quality ?

(2 × 4 = 8 weig