

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION OCTOBER 2012

(CCSS)

Environment and Water Management

EWM 5D 14—CHEMISTRY IN EVERY DAY LIFE

Three Hours

Maximum : 30 Weightage

Answer all twelve questions :

1 Manufacture of soap is called :

- (a) Esterification. (b) Saponification.
(c) Salling out. (d) Cleansing.

2 ——— was responsible for Bhopal Tragedy.

- (a) Vinyl chloride. (b) Methylene chloride.
(c) Methyl isocyanate. (d) Mercaptain.

3 Which of the following is a degradable pesticide ?

- (a) Malathion. (b) Lindane.
(c) DDT. (d) Endosulfan.

4 Purest form of water :

- (a) Lake water. (b) Well water.
(c) Rain water. (d) Sea water.

5 ——— the originator of Green Chemistry concept.

6 Glycerides are also known as ———.

7 In drinking water F^- concentration should be ——— ppm.8 ——— gas causes global warming and depletion of O_3 layer.

9 What is meant by BIS standards ?

10 What is Aflatoxins ?

11 Name two chemicals causing food poison.

12 What is meant by Atom Economy ?

(12 × ¼ = 3 Weightage)

Answer all nine questions :

13 What is meant by "Plachimada Movement" ?

14 Differentiate between BOD and COD.

15 SO_2 is a harmful gas. Justify.

16 What are soaps ?

Turn over

- 17 Give two advantages of synthetic detergents.
- 18 What is the action of preservatives ?
- 19 What is the meaning of command and control ?
- 20 What are the causes for water pollution ?
- 21 Define "Eutrophication".

(9 × 1 = 9 Weightage)

III. Answer any *five* questions from seven :

- 22 Briefly discuss on the major principles of green chemistry essential to part of chemistry.
- 23 Explain the term "Biomagnification".
- 24 Distinguish the action of soaps and detergents.
- 25 What are the criteria necessary for good hygiene ?
- 26 Write a brief note on "Narmada Bachao Andolan movement".
- 27 Account on "Microwave Assisted Green synthesis".
- 28 List out the disadvantages of excessive use of nitrogen fertilizers.

(5 × 2 = 10 Weightage)

IV. Answer any *two* questions from three :

- 29 What are the important water quality parameters ? Describe the methods for the estimation hardness and DO.
- 30 What is meant by global warming ? How we can reduce the rate of Global warming ?
- 31 Give an essay on "Our responsibility as a human to protect the surrounding environment".

(2 × 4 = 8 Weightage)