Or

- (b) Write a brief note on any five effects of adulterants.
- 20. (a) Mention the additives used in cosmetics and explain its role.

Or

(b) Discuss the regulatory test to be performed on a cosmetic product.

SECTION C - (3 × 10 = 30)

Answer any THREE questions.

- 21. Describe the causes of air pollution and effects of air pollution on human health.
- 22. Discuss the physical and chemical water quality parameter.
- 23. Enumerate the geochemical impact of municipal solid waste and steel plant effluents.
- 24. Elaborate the types and test for adulterants.
- 25. Explain the standard methods employed for analysis of cosmetic colours.

S.No. 6251

P 22 CHNME 1

(For candidates admitted from 2022-2023 onwards)

P.G. DEGREE EXAMINATION, NOVEMBER 2023

Chemistry — Non Major Elective

CHEMISTRY OF POLLUTION, FOOD AND COSMETICS

Time: Three hours

Maximum: 75 marks

SECTION A — (20 marks)

Answer ALL questions.

I. (A) Choose the correct answer:  $(5 \times 1 = 5)$ 

- 1. Which of the following gases are called Green houses gases?
  - (a) Methane
- (b) Nitrogen
- (c) Carbondioxide
- (d) Both (a) and (c)
- 2. Identify the most polluted river among the following
  - (a) Ganga

- (b) Chenab
- (c) Cauvery
- (d) Yamuna

3. Soil erosion can be prevented by ———	9. ———— contains 5-8% of acetic acid.
(a) Over grazing	10. are care substances used to enhance
(b) Removal of vegetation	the appearance of the body.
(c) Afforestation	II. Answer the following questions: $(5 \times 2 = 10)$
(d) Increasing bird population	11. Differentiate primary pollutants from secondary pollutants.
4. Choose the compound used for preservation of food	12. Write any five sources of freshwater.
grains	13. List the causes of soil erosion.
(a) Vinegar	14. Outline the role of antioxidant.
(b) Sodium chloride	15. Give the ingredients of face powder.
(c) Potassium permanganate	SECTION B — $(5 \times 5 = 25)$
(d) Sodium benzoate	Answer ALL questions choosing either (a) or (b).
<ul><li>5. Castor oil is used in lipsticks to</li><li>(a) Preventing shrinkage</li></ul>	16. (a) Explain the anthropogenic source of air pollution.
(b) Building viscosity	$\mathbf{Or}$
(c) Dispersing colour	(b) Outline any five methods to prevent air pollution.
<ul><li>(d) Preventing bleeding</li><li>(B) Fill in the blanks: (5 × 1 = 5)</li></ul>	17. (a) Summarize the causes of ground water pollution.
6. The earth atmosphere is made up of approximately 73% of ———.	Or
7. Fluorosis is the health effects caused due to excess	(b) List any five major water pollutants and their sources.
of ——— in drinking water.	18. (a) Give a brief note on effects of soil pollution.
8. — includes commercial and domestic	
wastes generated in municipal or notified areas in either solid or semi-solid form.	(b) Delineate the causes and symptoms of lead poisoning.
2 S.No. 6251	3 S.No. 6251