

**GOVERNMENT COLLEGE (A), RAJAMAHENDRAVARAM**

**I B.Sc. CHEMISTRY (H)**

**SEMESTER - I**

**QUESTION PAPER BLUE PRINT**

**Course -2: ADVANCES OF MATHEMATICS, PHYSICS, CHEMISTRY & COMPUTER  
SCIENCE**

**TIME: 2<sup>1</sup>/<sub>2</sub> hrs.**

**Max. MARKS: 50**

**PART-A**

Answer **ALL** the Questions

**5x7 = 35 M**

- 1. UNIT-I 2 Questions (Answer Q. No. 1 or 2)**
- 2. UNIT- II 2 Questions (Answer Q. No.3 or 4)**
- 3. UNIT- III 2 Questions (Answer Q. No. 5 or 6)**
- 4. UNIT- IV 2 Questions (Answer Q. No. 7 or 8)**
- 5. UNIT- V 2 Questions (Answer Q. No. 9 or 10)**

**PART – B**

Answer any **FIVE** Questions

**5x3 = 15 M**

- 11. 2 Questions from UNIT- I (Q. No 11 & 12)**
- 12. 2 Questions from UNIT- II (Q. No 13 & 14)**
- 13. 2 Questions from UNIT- III (Q. No 15 & 16)**
- 14. 1 Question from UNIT- IV (Q. No 17)**
- 15. 1 Question from UNIT- V (Q. No 18)**

**GOVERNMENT COLLEGE (A), RAJAMAHENDRAVARAM**  
**I B.Sc. CHEMISTRY MAJOR**  
**SEMESTER - I**

**Major-2: ADVANCES IN MATHEMATICAL, PHYSICAL AND CHEMICAL SCIENCES**

**SEMESTER END EXAMINATION    MODEL QUESTION PAPER (2023-24)**

**Time: 2<sup>1</sup>/<sub>2</sub> hrs.**

**Max. Marks: 50**

**PART- A**

**5 x 7 = 35 Marks**

**Answer ALL the questions. Each carries SEVEN marks.**

1. UNIT-I  
(or)
2. UNIT-I
3. UNIT-II  
(or)
4. UNIT-II
5. Discuss the impact of chemical pollutants on ecosystem and human health.  
(or)
6. Exemplify the types of nano sensors and applications.
7. Describe the sewage water treatment.  
(or)
8. UNIT-IV
9. UNIT-V  
(or)
10. UNIT-V

**PART- B**

**5 x 3 = 15 Marks**

**Answer any FIVE of the following questions. Each one carries THREE marks.**

11. Unit I
12. Unit I
13. Unit II
14. Unit II
15. Describe the importance of dye removal.
16. Write a note on Solid waste management.
17. Unit IV
18. Unit V