

CO-PO Mapping:

(1: Slight [Low]; 2: Moderate [Medium]; 3: Substantial [High], '-': No Correlation)

	PO 1	PO 2	PO3	PO 4	PO 5	PO6	PO 7	PO8	PO 9	PO1 0	PSO 1	PSO 2	PSO 3
CO1	3	2	3	2	2	2	3	3	2	2	3	3	3
CO2	2	3	3	3	3	2	1	2	2	3	2	2	3
CO3	3	3	3	2	2	1	1	2	3	1	2	3	3
CO4	2	1	2	1	3	2	3	1	2	3	2	3	2
Av g.	2.5	2.25	2.75	2.0	2.5	1.75	2.0	2.0	2.25	2.25	2.25	2.75	2.75

GOVERNMENT COLLEGE (A), RAJAMAHENDRAVARAM
I B.Sc. CHEMISTRY (H)
SEMESTER – II
QUESTION PAPER BLUE PRINT
Course -4: INORGANIC CHEMISTRY

TIME: 2¹/₂ hrs.

MARKS: 50 M

PART -A

Answer ALL the Questions

5 x 7 = 35 M

11. 2 Questions from UNIT- I
12. 2 Questions from UNIT- II
13. 2 Questions from UNIT-III
14. 2 Questions from UNIT IV
15. 2 Questions from UNIT-V

PART – B

Answer any FIVE Questions

5 x 3 = 15 M

1. 2 Question from UNIT- I
2. 2 Questions from UNIT- II
3. 2 Question from UNIT- III
4. 1 Questions from UNIT- IV
5. 1 Questions from UNIT- V

GOVERNMENT COLLEGE (A), RAJAHMUNDRY
I B.Sc. CHEMISTRY (HONOURS)
SEMESTER-II
MODEL PAPER (From 2023-234)
Course - 3: GENERAL AND INORGANIC CHEMISTRY

Time: 2¹/₂ hrs.

Maximum Marks: 50

PART- A

Answer ALL the questions. Each carries SEVEN marks

5 x 7 = 35 M

1. What are silicones? Write the classification, preparation and applications of Silicones.

(OR)

2. Explain the preparation and structure of Borazole.
3. Explain the classification of oxides based on oxygen content.

(OR)

4. Explain the preparation and structures of AX₅ and AX₇ type Inter halogen compounds.
5. Explain the following characteristic properties of d-block elements.
- i. Ability to exhibit variable oxidation states
 - ii. Ability to form complex compounds.

(OR)

6. Write short notes on the following properties of d- block elements
- i. Catalytic properties
 - ii. Magnetic properties.
7. What is Lanthanide contraction ? Explain the consequences of Lanthanide contraction

(OR)

8. Explain the separation of Lanthanides by ion exchange method.
9. Write the preparation and synthetic applications of Grignard reagents.

(OR)

10. Explain the preparation and synthetic applications of R-Li.

PART- B

Answer any FIVE of the following questions. Each carries THREE marks 5 x 3 = 15 M

11. Explain the structure of $P_3N_3Cl_6$.
12. Explain the preparation and the structure of Diborane
- 13 .Write a short note on pseudo halogens.
14. Describe the classification of oxides based on chemical behavior.
15. Explain the abnormal electronic configurations of Cr and Cu.
16. Write a short note on Latimer diagrams.
17. Write the differences between Lanthanides and Actinides.
18. Explain briefly about the classification of Organo metallic compounds.