

# Rajiv Gandhi University of Health Sciences, Karnataka

**First Semester B.Pharm Degree Examination – 28-Apr-2025**

**Time: Three Hours**

**Max. Marks: 75**

## **PHARMACEUTICAL ANALYSIS - I**

**Q.P. CODE: 5002**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

All the questions are compulsory

### **LONG ESSAYS**

**2 x 10 = 20 Marks**

1. Define and classify errors with suitable examples and explain the terms 'accuracy' and precision.

**OR**

What are non-aqueous titrations? Write about different types of solvents used in the same and explain the estimation of Ephedrine HCl I.P

2. Write a note on Cerimetry, Iodometry, Bromatometry and Dichrometry with suitable examples

### **SHORT ESSAYS**

**7 x 5 = 35 Marks**

3. Define with suitable examples primary standard substance. What the ideal characteristics for the same?

**OR**

Define and classify acid base titrations with suitable example

4. Explain the Quinonoid theory of indicator with example

**OR**

Explain assay of sodium chloride I.P.

5. What is gravimetric analysis? Write the estimation of Barium sulphate I.P.

6. Classify complexometric titrations and explain each type with a suitable example.

7. Write the construction and working of dropping mercury electrode

8. Write the construction and working of glass electrode. What is its use?

9. Define Conductance, resistance, molar conductance, specific conductance and cell constant

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

10. Write the difference between assay and estimation

11. Define normality and molarity.

12. Write the preparation 500 ml 0.1 N sodium carbonate solution (Mol.wt=106)

13. What is differentiating effect?

14. What are masking agents? Give examples

15. What are chelating agents? Give examples

16. Give an example for titrations with potassium iodate in redox titrations

17. Name four indicators used in precipitation titration.

18. Short note on significant figures

19. Write Ilkovic equation and its importance

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