



P. RAMI REDDY MEMORIAL COLLEGE OF PHARMACY

(AUTONOMOUS)

Awarding University: JNTU Anantapur, Anantapuramu. Approved by PCI, New Delhi & Govt. of A.P.

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Code: 25BP104T

R25

B.Pharm I Year I Semester (R25) Regular Examinations March 2026

PHARMACEUTICAL INORGANIC CHEMISTRY

(B.Pharmacy)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
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|---|--------|-----|----|
| (a) Define impurity and types in pharmaceutical substances. | C114.1 | I | 2M |
| (b) What is the principle of the limit test for sulphates? | C114.1 | I | 2M |
| (c) What is the role of oral rehydration salts (ORS)? | C114.2 | I | 2M |
| (d) Write two inorganic compounds used in dentistry. | C114.2 | III | 2M |
| (e) Give two examples of acidifier. | C114.3 | II | 2M |
| (f) Name two ideal properties of antacids. | C114.3 | I | 2M |
| (g) Name two antidote for cyanide poisoning. | C114.4 | I | 2M |
| (h) Write medicinal use of zinc sulphate and ammonium chloride. | C114.4 | III | 2M |
| (i) Define half-life of a radioisotope. | C114.5 | I | 2M |
| (j) Name two diagnostic radiopharmaceutical. | C114.5 | I | 2M |

PART – B

(Answer all the questions: 05 X 10 = 50 Marks)

- 2 (a) Describe the principle of the limit test for chlorides. C114.1 II 5M
(b) Explain the modified limit test for sulphates. C114.1 II 5M
- OR**
- 3 (a) Write the procedure and principle of the limit test for iron. C114.1 III 5M
(b) Limit test for lead. C114.1 II 5M
- 4 (a) Discuss the functions of major physiological ions. C114.2 II 5M
(b) Explain the role of sodium chloride and potassium chloride in replacement therapy. C114.2 V 5M
- OR**
- 5 (a) Describe the role of fluoride in dental caries prevention. C114.2 II 5M
(b) Write notes on desensitizing agents used in dentistry. C114.2 III 5M
- 6 (a) Discuss the mechanism of action of cathartics. C114.3 II 5M
(b) Write notes on kaolin and bentonite as gastrointestinal agents. C114.3 III 5M
- OR**
- 7 (a) Explain the classification of antimicrobials. C114.3 V 5M
(b) Discuss the pharmaceutical applications of iodine and its preparations. C114.3 II 5M

Contd. in Page 2

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|---|-----|--|--------|---|----|
| 8 | (a) | Define antidote and discuss the role of activated charcoal as an antidote. | C114.4 | I | 5M |
| | (b) | Define astringents, Write notes on zinc sulphate and potash alum as astringents. | C114.4 | I | 5M |

OR

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|---|-----|--|--------|----|----|
| 9 | (a) | Explain the use of sodium nitrite in poisoning cases. | C114.4 | II | 5M |
| | (b) | Define expectorants give examples and discuss the medicinal importance of copper sulphate. | C114.4 | I | 5M |

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|----|-----|---|--------|-----|----|
| 10 | (a) | Write examples and uses of any five radiopharmaceuticals. | C114.5 | III | 5M |
| | (b) | Explain the precautions and storage conditions of radioactive substances. | C114.5 | II | 5M |

OR

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|----|-----|--|--------|-----|----|
| 11 | (a) | Write notes on radio contrast agents used in diagnosis. | C114.5 | III | 5M |
| | (b) | Discuss the role of radiopharmaceuticals in modern medicine. | C114.5 | II | 5M |
