

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – JULY 2019  
First Semester**

**PHARMACEUTICAL INORGANIC CHEMISTRY**

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Write the principle, procedure and reaction involved in limit test for heavy metals and sulphates.
2. Describe the method of preparation, assay and uses of ammonium chloride.
3. What is physiological acid base balance? Explain the preparation and assay of calcium gluconate.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. What are expectorants? Write the preparation and uses of potassium iodide.
5. What is radioactivity? Explain any one method to measure the radioactivity.
6. Explain the mechanism of action of antimicrobial agents. Write the preparation of boric acid.
7. What is antacid combination therapy? Write the principle involved in the assay of sodium bicarbonate.
8. Define and classify dental products. Explain the role of fluorides in the treatment of dental caries.
9. Write notes on chlorinated lime.
10. Explain the physiological role of potassium and chloride ions.
11. Write the applications of radioactive substances.
12. Write the preparation, properties and uses of magnesium sulphate.

III. Write short notes on : (10 x 2 = 20)

13. Define cathartics with an example.
14. What are astringents? Write the use of zinc sulphate.
15. Define emetics. Write the molecular formula of sodium potassium tartrate.
16. What are radioisotopes? Give examples.
17. Write a note on kaolin.
18. Write the procedure involved in the limit test for chloride.
19. Write the preparation method of aluminium hydroxide gel.
20. Write the storage condition and uses of copper sulphate.
21. Define dentifrices with examples.
22. Write about the assay of hydrogen peroxide.