Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Degree Examination – NOVEMBER 2015

Time: Three Hours   **Max. Marks: 70 Marks**

PHARMACEUTICAL INORGANIC CHEMISTRY

Q.P. CODE: 2878

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any two)   **2 x 10 = 20 Marks**

1. Describe the various sources of impurities in pharmaceutical compounds. Add a note on their effects.   7+3
2. Explain the different theories of indicators with examples.
3   Discuss the principle, reactions and apparatus of Arsenic limit test.

SHORT ESSAYS (Answer any six)   **6 x 5 = 30 Marks**

4.   Classify solvents used in non-aqueous titrations with examples.
5.   What are dental products? Discuss the role of fluoride in dental caries.
6.   Write briefly on steps involved in gravimetric analysis.
7.   What are Inhalants? Give methods of preparation and uses of carbon dioxide.
8.   Give the chemical composition and uses of i) Magnesium trisilicate ii) Chlorinated lime iii) Bentonite iv) Milk of magnesia v) Potassium iodide
9.   Discuss the principle and reactions involved in the assay of Ammonium chloride by formal method.
10. Write a note on ORS
11. Define and classify Errors with examples.

SHORT ANSWERS   **10 x 2 = 20 Marks**

12. Role of citric acid in iron limit test.
13. Applications of radio isotopes
14. Give the chemical formula of inorganic compound which acts as i) expectorant ii) sedative
15. Define Achlorhydria and Hyperchlorhydria.
16. Define and classify Antidotes
17. Methods to express Concentration of Solutions.
18. What are Chelating agents? Give example
19. Write the significance of manganese
20. What are Antimicrobials? Give examples.
21. Complete and balance the following equations
     a) Potassium permanganate + Sulphuric acid —>
     b) Potassium hydroxide + iodine —>

*****