PY - 105

B.Pharmacy I Semester

Examination, December 2014

Pharmaceutical Chemistry - II (Inorganic)

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.
- What do you mean by ionization enthalpy?
 - What is ionic radii?

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- Discuss the properties of d-block elements.
- Discuss the properties of s and p block elements.

Discuss the various sources of impurities in pharmaceutical products.

- What is limit test?
- What is essential and trace elements?
- Describe the principle and procedure for limit test of chloride.
- Describe the principle and procedure for limit test of iron and sulphate.

OR

Explain the principle, apparatus and procedure for limit test of arsenic.

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- Write two therapeutic uses of lithium carbonate.
- Write two uses of iodine solution.
 - Write the preparation and uses of Grignard's reagent.
- Write molecular formula, molecular weight, preparation
- and uses of the following: Sodium chloride ii) Calcium carbonate

OR

Explain the role of sodium, potassium, calcium and chloride ions in the human body.

Write two important uses of boron trifluoride.

- b) Write two therapeutic uses of aluminum hydroxide gel.
- c) Explain the important functions of iron and iodine in human body.
- Write molecular formula, molecular weight, preparation and uses of the following
 - Boric acid ii) Potassium chloride

OR

Write molecular formula, molecular weight, preparation and uses of the following

- i) Ferrous sulphate ii) Hydrogen peroxide
- Write two examples of diagnostic agents. a)
 - What are radiopharmaceuticals?
 - Write the preparation and uses of potassium permanaganate.
 - Discuss the applications of radiopharmaceuticals.

Write molecular formula, molecular weight, preparation and uses of the following:

Zinc sulphate ii) Magnesium sulphate

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