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Total No. of Questions: 5]

[Total No. of Printed Pages:2

PY-105

B.Pharmacy I Semester

Examination, December 2016

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 is modern periodic law?
 - What is oxidation state? b)
 - What are the properties of d block elements?
 - d) Explain the role of essential and trace ions in biological system.

Explain the principle and procedure for limit test of chloride.

- What is limit test?
 - b) What is the principle of limit test of sulphate?
 - What is the physiological acid base balance? c)
 - Discuss the electrolyte combination therapy.

Discuss major physiological ions and electrolytes used in replacement therapy.

PY-105

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[2]

- Explain the uses of hydrogen peroxide.
 - What is the role of Iron in biological system?
 - Enlist official inorganic compounds of sodium.
 - Describe the preparation, properties and uses of the Grignard reagent and potassium permanganate.

OR

Write a short note on Magnesium sulphate and calcium carbonate.

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- What is the principle of limit test of arsenic?
 - Describe the Nesslers cylinder.
 - Describe calcium hydroxide.
 - Describe the preparation, properties and uses of the light and heavy magnesium oxide.

OR

Describe the preparation, properties and uses of the silver chloride and aluminium hydroxide.

- What are radiopharmaceuticals?
 - What are the natural and artificial radio-isotops?
 - c) What are various sources of impurity in pharmaceuticals, How do we detect them?
 - d) How radio-isotops may be produced? What is a Geiger-Muller counter?

OR

Discuss the diagnostic and therapeutic application of radiopharmaceuticals.

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PY-105