

Roll No

PY-112

B.Pharmacy, I Semester (Old Scheme)

Examination, December 2016

Choice Based Credit System (CBCS)

Pharmaceutical Chemistry-I

(Inorganic Chemistry)

Time : Three Hours

Maximum Marks : 60

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What are main features of modern periodic table?
b) How atomic radii, ionic radii and oxidation states change/follow periodic trends?
2. a) What are sources of impurities in pharmaceuticals. Explain with examples.
b) Give principle and procedure for limit test of Arsenic.
3. Give preparation, properties, uses of any three of the following:
 - a) Calcium gluconate
 - b) Ferrous sulphate
 - c) Sodium bicarbonate
 - d) Aluminium Hydroxide gel
 - e) Zinc sulphate

4. Give preparation, properties and uses of any three of the following:
 - a) Grignard reagent
 - b) Potassium dichromate
 - c) Boron trifluoride
 - d) Hydrogen peroxide
5. a) What is the importance of essential trace metals in body?
b) How oxygen is stored and transported in body?
6. a) Enumerate major physiological ions and their uses.
b) What is the use of electrolyte combination therapy?
7. a) Discuss basic properties, production and stability of radio pharmaceuticals.
b) Discuss medicinal uses of radiopharmaceuticals.
8. Write notes on any three of the following:
 - a) Limit test for lead
 - b) Biological redox processes
 - c) Physiological acid base balance
 - d) Importance of limit test

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