JM-16112020701010200 Seat No. _____

Master of Pharmacy Management (Sem. I) (CBCS) Examination

August / September - 2019

BP-102 : Pharmaceutical Chemistry - I

(Inorganic Chemistry)

Time : **3** Hours] [Total Marks : **80**

Instructions : (1) Attempt three questions from each section.
(2) Questions 1 and 5 are compulsory.
(3) Figure to the right indicates full marks for the respective question.

SECTION - I

1 Explain the following terms : (Any **Seven**) **14**

(1) Hematinics
(2) Dessicant
(3) Buffer solution
(4) Antidote
(5) Radioactivity
(6) Antiseptic
(7) Astrigent
(8) Official compound

2 What is mean by impurities ? Explain the different types of impurities ? Discuss sources of impurities in detail. **13**

3 (1) What are gastrointestinal agents ? Briefly classify them with suitable examples. **7**

(2) Write a short note on : Physiological acid-base balance. **6**

4 Answer the following :

(1) Discuss the physiological role of oxygen and describe its method of preparation, properties, storage conditions and uses. **7**

(2) What are antimicrobial agents ? Classify them with suitable examples. Discuss the various mechanism of actions them. **6**

SECTION - II

5 Answer the following questions : (Any **Two**) **14**

(1) Enlist various methods for softening the hard water? Discuss any one method in detail.

(2) Write a brief note on chelating agents used in therapy.

(3) Define antacid. Explain briefly the characteristic of Ideal antacid. Give preparations, properties, and uses of aluminium Hydrochloride Gel.

6 (1) Enumerate different methods for measurement of radioactivity and explain any one in detail. **7**

(2) What do you understand by antibacterial agent? Explain its mechanism. Give preparation, properties, assay principle and uses of silver nitrate. **6**

7 (1) Define limit test. Write the importance of limit test. Write a detail note on limit test of iron. **7**

(2) Classify : Dental products. Discuss Sodium fluoride as dental product. **6**

8 Answer the following :

(1) Define : Antidotes. Discuss mechanism of action of antidote poisoning. Write a note on cyanide poisoning and its treatment. **7**

(2) Write the preparation of following compounds : (Any **Two**) **6**

(1) Aluminium hydroxide gel.

(2) Sodium thiosulphate

(3) Copper sulphate