



**P-16112020701010200** Seat No. \_\_\_\_\_

**M. P. M. (Sem. I) (CBCS) Examination**

July - 2018

**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**

<b>1</b>	Answer following questions : (Any Seven)	<b>14</b>
(1)	Define: Pharmacopoeia	
(2)	What is constructive impurity? Explain with suitable example.	
(3)	What is the role of citric acid and ammonia in limit test of iron.	
(4)	Differentiate: Hypochlorhydria and Hyperchlorhydria	
(5)	Explain the term Haematinics with suitable examples.	
(6)	Define: Half life	
(7)	Give two examples of dental products.	
(8)	What is ORS? Give its composition.	
(9)	Explain the term: Adsorbents and diluents	
(10)	Differentiate: Homogenous and heterogeneous catalysts	
<b>2</b>	(1) Give limit test of iron and sulphate.	<b>7</b>
(2)	Write a note on physiological acid base balance.	<b>6</b>
<b>3</b>	(1) Give equation for first order and second order kinetics. Discuss various methods for determination of order of reaction.	<b>7</b>
(2)	What are gastrointestinal agents? Classify them with suitable examples. Explain each class in brief.	<b>6</b>

4 Answer the following :

(1) Explain antimicrobial agents with its mechanism of action. 7

(2) What is role of fluoride in dental caries? Give preparation, properties and uses of sodium fluoride. 6

**SECTION - II**

5 Answer the following questions : (Any Two) 14

(1) Write a note on measurement of radioactivity.

(2) Explain the following terms with suitable examples :

(a) Pharmaceutical aid;

(b) Antioxidants;

(c) Preservative. Give preparation, properties and uses of  $KMnO_4$

(3) Enumerate sources of impurities and explain any one in detail.

6 (1) Discuss mechanism of action of antidote poisoning. 7  
Write a note on cyanide poisoning and its treatment.

(2) Differentiate : 6

(a) Hyponatremia and hypernatremia;

(b) Antidote and poison

7 (1) Write a note on respiratory stimulants. 7

(2) Give assay principle of boric acid, hydrogen peroxide, and  $FeSO_4$ . 6

8 Answer the following :

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

(2) Give two examples of : 6

(a) emetics;

(b) filter aids;

(c) expectorants.