



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

- 1** Answer following questions : (Any **Seven**) **14**
- (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
- 2** (1) Give limit test of iron and sulphate. **7**
(2) Write a note on physiological acid base balance. **6**
- 3** (1) Give equation for first order and second order kinetics. Discuss various methods for determination of order of reaction. **7**
(2) What are gastrointestinal agents? Classify them with suitable examples. Explain each class in brief. **6**

- 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.