MU-16112020701010200 Seat No. _____

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

January – 2018

Pharmaceutical Chemistry – I

(Inorganic Chemistry)

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

Instructions :

(1) Answer any three from each section except question **1** and **5** are compulsory.

(2) Figure to the right indicates marks.

(3) Draw neat and clean diagrams as required.

SECTION – I

1 Answer any **seven** out of given **ten** questions : **20×7=14**

a) What is the difference between Poison and Antidote ?

b) Write molecular formula and uses of Bleaching powder.

c) Give the synonyms and uses of Epsom salt and Green vitriol.

d) How bacteriostatic are different from bactericidal ?

e) Name the various compounds of iron which are used in pharmacy.

f) What is ORS ?

g) Define Laxatives with illustration.

h) Define impurities.

i) What is the role of Glycerin in estimation of Boric acid ?

j) Distinguish between limit test and assay.

2 Answer the following :

a) What are uses of antacid ? Describe ideal properties of antacid. Give method of preparations of hydrochloric acid. **7**

b) How will you select Pharmaceutical buffers ? Explain factors affecting it and name any two physiological buffers and two analytical buffers. **6**

3 Answer the following :

a) Explain the importance of limit test in pharmaceutical preparation. Explain principle of limit test for Iron. **7**

b) Explain the term hypernatremia and hypokalemia. Write a note on Electrolyte replacement therapy. **6**

4 Answer the following :

a) Write a detailed note on diluents and antioxidant as pharmaceutical aid. **7**

b) Write a detailed note on Gutzeit test. **6**

SECTION – II

5 Answer any **two** out of given **three** questions : **2×7=14**

a) Write the physiological role of oxygen and describe preparation, properties, storage conditions and uses of it.

b) What is G.M. Counter ? Give a brief account on therapeutic and diagnostic applications Of inorganic radiopharmaceuticals.

c) Explain the following with example :

1) Emetics
2) Hygroscopic
3) Deliquescence
4) Astringent

6 Answer the following :

a) What are dental products ? Classify them with suitable examples. Write the preparation of sodium fluoride. **7**

b) Write a note on cyanide poisoning and its treatment. **6**

7 Answer the following :

a) Give an account on physiological functions of calcium and diseases associated with it. **7**

b) Give classification of antimicrobial agents with example and discuss its mechanism of action. **6**

8 Answer the following :

a) Write the uses and storage condition of phosphoric acid, silver nitrate and iodine. **7**

b) Write a note on complexing and chelating agents used in therapy. **6**