



**MX-014-1041007**

Seat No. \_\_\_\_\_

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

**January - 2018**

**Pharmaceutical Inorganic Chemistry - BP-104**

**Faculty Code : 014**

**Subject Code : 1041007**

Time : 3 Hours]

[Total Marks : 75

**1** Answer the following questions : **10×2=20**

- (a) Define : Official compound
- (b) What is Radioactivity?
- (c) Explain the term lugol solution with its composition.
- (d) Describe the limit test and its importance.
- (e) Clarify: Hematinic and expectorant
- (f) Explain in brief storage condition and precaution of radioactive substances.
- (g) What are emetics and expectorants?
- (h) Define Buffers and buffer capacity.
- (i) Define an Antacid and give ideal properties of it.
- (j) Explain solubility chart.

**2** Answer any **two** out of the following : **2×10=20**

- (a) Explain term impurities. What are the different types of impurities? Discuss sources of impurities in detail.
- (b) Explain the role of intra- and extra cellular ions in maintaining physiological balance. Write a note on Electrolyte combination theory.
- (c) Write the method preparation and assay principle of following compounds
  - (1) Sodium chloride
  - (2) Hydrogen peroxide

3 Answer any seven out of the following :

7×5=35

- (a) Define limit test. Write the importance of limit test. Write a detail note on limit test of iron.
- (b) Write a short note on: Indian Pharmacopoeia.
- (c) How the radioactivity measured? Write a note on GM counter.
- (d) Define : Antidotes. Discuss mechanism of action of antidote poisoning. Write a note on cyanide poisoning and its treatment.
- (e) Explain Bronsted acid base theory. What are conjugated pairs of acid and base?
- (f) What are anticaries agents? Discuss the role of fluoride.
- (g) Explain in detail about different properties of alpha, beta and gamma radiation. Give use of Iron [ $^{59}\text{Fe}$ ], Sodium Iodide [ $^{131}\text{I}$ ], and Cynocobalamine [ $^{57}\text{Co}$ ].
- (h) What are antimicrobial agents? Classify them with suitable examples. Discuss the various mechanism of action them.
- (i) Write chemical name and use of following :
  - (1) Baking soda
  - (2) Alum
  - (3) Common salt
  - (4) Tartar emetic
  - (5) Epsom salt