



J-014-1041007

Seat No. _____

B. Pharm. / M. P. M. (Sem. I) (CBCS) Examination

June / July - 2019

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: Radio Isotopes.
- (b) Describe Cathartics with an example.
- (c) What are Official compendia?
- (d) Clarify the term Antacid with one example.
- (e) Differentiate between Poison and Antidote.
- (f) Explain: Dentifrices and Desensitizing agents.
- (g) Describe the definition of astringent with an example.
- (h) Discuss the composition of ORS.
- (i) Write the importance of limit test.
- (j) Explain the term Buffer capacity.

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

- (a) Write the assay principle and medical uses of following compounds :
 - (1) Sodium thiosulphate
 - (2) Ammonium chloride.
- (b) What are impurities? Describe the different types of impurities. Discuss sources of impurities in detail.
- (c) Explain the role of intra and extra cellular ions in maintaining physiological balance.
Write a note on - Electrolyte combination theory.

3 Answer any seven out of the following :

7×5=35

- (a) Define limit test. Write a detailed note on limit test of arsenic.
- (b) Discuss mechanism of action of antidote poisoning. Write a note on cyanide poisoning and its treatment.
- (c) Explain Bronsted acid base theory. What are conjugated pairs of acid and base?
- (d) Define half life. Explain the properties of α, β, γ radiations.
- (e) Write a note on GM counter.
- (f) Discuss the role of fluoride in the treatment of Dental caries.
- (g) Write the ideal properties of Antacids. Explain assay principle and preparation of Sodium Bicarbonate.
- (h) Describe the antimicrobial agents and classify them with suitable examples. Discuss the various mechanisms of action on them.
- (i) Write assay principle of following :
 - (1) Chlorinated lime
 - (2) Calcium gluconate.
