



NC-014-003103

Seat No. _____

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

January – 2017

Pharmaceutical Chemistry - I

(Inorganic Chemistry - I)

[Old Syllabus]

Faculty Code : 014

Subject Code : 003103

Time : **3** Hours]

[Total Marks : **80**

- Instructions :**
- (1) Attempt three questions from each section.
 - (2) Questions 1 to 5 are compulsory.
 - (3) Tie each section separately.
 - (4) Figures to the right indicates full marks for the respective question.

SECTION - I

- 1** Explain the following terms : (any seven) **14**
- (1) Astringents
 - (2) Buffer capacity
 - (3) Cathartics
 - (4) Disinfectant
 - (5) Efflorescence
 - (6) Excipient
 - (7) Impurity
 - (8) Inhalant
 - (9) Pharmacopoeia
 - (10) Radioisotope.

- 2 Discuss sources of impurities in detail. 13
- 3 (1) What is meant by physiological buffers ? Describe the mechanism of maintaining pH of blood. 7
- (2) What are gastrointestinal agents ? Briefly classify them with suitable examples. 6
- 4 Answer the following :
- (1) Compare properties of alpha, beta and gamma radiations. Discuss applications of radiopharmaceuticals. 7
- (2) Explain solubility chart as well as storage conditions of official substances. 6

SECTION - II

- 5 Answer the following questions : (any two) 14
- (1) What are antimicrobial agents ? Classify them with suitable examples. Discuss the various mechanism of actions them.
- (2) Define limit test. Explain limit test of chloride in detail.
- (3) Classify : Dental products. Discuss sodium fluoride as dental product
- 6 (1) What are Antidotes ? Discuss mechanism of action of antidote poisoning. Write a note on cyanide poisoning and its treatment. 7
- (2) Define and explain pharmaceutical aids used in pharmaceutical formulations. Write informative note on "Anti-oxidant". 6
- 7 (1) Define and classify topical agents with suitable examples. Give preparation, properties, uses and assay principle of zinc oxide. 7
- (2) Discuss the physiological role of oxygen and describe its method of preparation, properties, storage conditions and uses. 6

8 Answer the following :

- (1) How the radioactivity measured ? Write a note on Gieger Muller counter. 7
- (2) Write the assay principle of following compounds : (any **three**) 6
- (1) Boric acid
 - (2) Copper Sulphate
 - (3) Hydrogen peroxide
 - (4) Ferric ammonium citrate
 - (5) Ammonium chloride.
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