

Roll No.

Total No. of Questions : 10]

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J-726[5371]

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B.Pharmacy (Semester - 1st)

PHARMACEUTICAL CHEMISTRY - I (PHM - 1.1.4)

(Inorganic Pharmaceutical Chemistry)

Time : 03 Hours

Maximum Marks : 80

Instruction to Candidates:

- 1) Section - A is **compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Three** questions from Section - C.

Section - A

Q1)

(15 x 2 = 30)

- a) Define test for purity and give its significance?
- b) Explain briefly the principle in the limit test for lead?
- c) Write notes on combination antacid therapy.
- d) Mention the side effects of antacids.
- e) Define buffer capacity.
- f) Explain the role of buffers in pharmacy.
- g) Mention the method of preparation and tests for purity of zinc chloride.
- h) Mention the method of preparation and tests for purity of mild silver protein.
- i) Write about activated dimethicone I.P.
- j) What are expectorants? Write their mechanism of action?
- k) What are respiratory stimulants?
- l) Write the method of preparation of aromatic spirit of ammonia.
- m) Write notes on radio opaque contrast media.
- n) What are complexing and chelating agents?
- o) Define alkalosis? How can it be corrected?

P.T.O.

Section - B

(4 x 5 = 20)

- Q2) Mention the compounds of calcium and magnesium antacids? Give the method of preparation, properties and tests for purity of any one compound of calcium?
- Q3) What are cathartics? Explain their mechanism of action.
- Q4) Define astringents? Give their mechanism of action and uses.
- Q5) Write notes on electrolytes replacement therapy.
- Q6) Explain how radioactivity is measured.

Section - C

(3 x 10 = 30)

- Q7) Explain the principle and method for the limit test for sulfates.
- Q8) Mention the ideal criteria for an antacid? Describe the preparation, properties and tests for purity of magnesium trisilicate?
- Q9) What are major intra and extra cellular electrolytes? Discuss the physiological role of potassium?
- Q10) Discuss the applications of radiopharmaceuticals?

