

UKA TARSADIA UNIVERSITY

B.Pharm. (1st Semester)

Subject :030020102-Pharmaceutical Chemistry(Inorganic)

Time : 10:00 am to 1:00 pm

Duration : 3 Hours

Date : **23/12/2013**

Max. Marks : 70.

Instructions:

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks allocated to that question.
5. Draw diagrams/figures whenever necessary.

SECTION - 1

Q-1 (A) Do as directed.

[07]

- I) What is pharmacopoeia?
- II) What is the use of thioglycolic acid in limit test of iron?
- III) Enlist the reagents used in limit test for lead.
- IV) What is soft acid?
- V) What is an acidifying agent?
- VI) What is hyperkalemia?
- VII) Which apparatus is used for assay of nitrogen?

Q-1 (B) Answer the following in brief. (Any 4)

[08]

- I) Define monograph and enlist contents of monograph.
- II) Write the principle for limit test for heavy metals.
- III) Define protective and adsorbents with examples.
- IV) Write the storage condition for nitrous oxide.
- V) Write the assay method for determination of ammonia.
- VI) Enlist the reagents used in limit test for arsenic.

Q-2 Answer the following.

[10]

- A) Define antacid and write ideal properties for antacid.

OR

- A) Discuss the principle of limit test for lead as per I.P.
- B) What are intra and extra cellular electrolytes? What is meant by oral rehydration therapy?

OR

- B) Write a short note on oxygen.

Q-3 Answer the following in detail. (Any 2)

[10]

- A) Write methods of preparation, uses and assay method for milk of magnesia.
- B) Write a short note on water.
- C) Write methods of preparation, uses and assay method for laughing gas.

SECTION - 2

Q-4 (A) Do as directed.

[07]

- I) Define an astringent.
- II) What is an anti-carries agent?
- III) Write any two examples of compound used as dentifrice.
- IV) Which compounds are used as filter aids?
- V) What is radio-active substance?
- VI) Define sclerosing agent.
- VII) What are the uses of dimercaprol?

Q-4 (B) Answer the following in brief. (Any 4)

[08]

- I) Write method of preparation and uses of calamine.
- II) Write method of preparation for sodium iodide.
- III) What are anticaries agents?
- IV) What are the ideal properties for radio opaque contrast media?
- V) Write the mechanism of action for anti -microbial agents.
- VI) Outline role of activated charcoal in poisoning

Q-5 Answer the following.

[10]

- A) Write a short note on scintillation counter.

OR

- A) Write a short note on anti-oxidants.
- B) What are topical agents? Classify them with example and explain their mechanism of action.

OR

- B) Write a short note on expectorants.

Q-6 Answer the following in detail. (Any 2)

[10]

- A) Write methods of preparation, used and assay method for sodium iodide.
- B) Write methods of preparation, uses and assay method for sodium nitrite.
- C) Write methods of preparation, uses and assay method for ammonium chloride.