

**PHB Sample Paper**

Session: 2022 – 23

Course: D. Pharm Ist Year

Subject: PHARMACEUTICAL CHEMISTRY

Exam: Ist Sessional Question Paper- 1

**Attempt all the questions:****(Section: A)****(MCQ) Multiple Choice questions:****[5]****1. Apparatus used for limit test:**

- |                       |                  |
|-----------------------|------------------|
| a. Measuring Cylinder | b. Test tube     |
| c. Nessler Cylinder   | d. Conical Flask |

**2. In limit test of Iron, purple colour is due to formation of \_\_\_\_\_:**

- |                          |                         |
|--------------------------|-------------------------|
| a. Ferrous thioglycolate | b. Ferric thioglycolate |
| c. Glycolate             | d. Thioglycolate        |

**3. Complexometric titration is used for determination of .....**

- a. Halides
- b. Non-metal ions
- c. Acid & Bases
- d. Metal ions

**4. The stomach pH can range .....when food is present:**

- |        |       |
|--------|-------|
| a. 7.4 | b. 7  |
| c. 5   | d. 10 |

**5. Molecular weight of Nitrous oxide is .....**

- |         |         |
|---------|---------|
| a. 46.1 | b. 40.2 |
| c. 44.2 | d. 42.2 |

**ANSWER IN ONE SENTENCES ONLY:****[5]**

- 1. Define Haematinics.
- 2. Give the chemical formula of Nitrous Oxide.
- 3. What is Neutralisation reaction?
- 4. Enlist two factor affecting limit test.
- 5. Which gas is also known as laughing gas?

**(Section: B)**

**Short questions (Attempt any five)**

**[5x3=15]**

1. Explain the limit test of arsenic with diagram, principle and procedure.
2. Explain Complexometric titration.
3. What are medicinal gases? Explain any one.
4. Write a detailed note on Boric Acid.
5. What are dental products? Explain their characteristics and categories.
6. a. Write a note on antacid with its ideal properties.  
b. Explain the sources and effect of impurities of pharmaceuticals.

**(Section: C)**

**Long questions (Attempt any three)**

**[3x5=15]**

1. Explain gravimetric analysis.
2. What are Anti-microbial agents? Explain about Hydrogen Peroxide.
3. Write a detailed note on:
  - a. Ferrous Fumerate
  - b. Magaldrate
4. a.) Explain precipitation titration.  
b.) Explain redox titration.