

S. B. Roll. No.....

**PHARMACEUTICS**  
**1<sup>st</sup> Exam/Pharmacy/3011/Nov'24**  
**(For 2021 Batch Onwards)**

**Duration: 3Hrs.**

**M.Marks:80**

**SECTION-A**

**Q1. Fill in the blanks.**

**20x1=20**

- a. NFI stands for \_\_\_\_\_.
- b. Thiomersal is used as \_\_\_\_\_.
- c. Continuous hot percolation method is also termed as \_\_\_\_\_.
- d. \_\_\_\_\_ is used to reduce friction during tablet ejection.
- e. LAL test is used to detect the presence of \_\_\_\_\_.
- f. \_\_\_\_\_ are concentric spheres of lipid bilayer encapsulated within are aqueous reservoir.
- g. \_\_\_\_\_ is the transport of drugs through skin using ultrasound.
- h. Which type of layout minimizes contamination / mix-up?
- i. Define validation.
- j. What are eutectic mixtures?
- k. Who is known as the father of Indian pharmacy?
- l. Who was appointed as chairman of Drug enquiry Committee?
- m. Which type of glass is used for packaging of parenterals?
- n. Give examples of any two synthetic rubber used in packaging of pharmaceutical products.
- o. Which flavor is considered best for salty preparation?
- p. Name any two natural coloring agents.
- q. Define the grade 'Coarse powder'.
- r. What is tertiary packaging?
- s. Which material is used to make sintered glass filter?
- t. Name the methods by which suppositories are prepared.

**SECTION-B**

**Q2. Attempt any ten questions.**

**10x3=30**

- i. Classify preservatives.
- ii. When is validation required?
- iii. Write the applications of ball mill and double cone blender.
- iv. Explain any two official quality control tests for tablets.
- v. Discuss the benefits of developing NDDS.
- vi. Write a note on 'Bulk powders for external use'.
- vii. What is reserved percolation? Write its advantages.
- viii. Discuss the steps involved in making empty hard gelatin capsule shell.
- ix. Discuss the functions of quality control department.
- x. Briefly discuss the post-independence scenario of pharmacy education in India.
- xi. Write advantages and disadvantages of metals as packaging material. .

**SECTION-C**

**Q3. Attempt any six questions.**

**6x5=30**

- a. Design a layout of pharmaceutical industry according to cGMP.
- b. Discuss any two Novel drug delivery systems.
- c. Describe glass as packaging material.
- d. Explain principle, construction and working of cyclone separator.
- e. Discuss various career opportunities available in pharmacy profession.
- f. How vaccines are prepared from animals and eggs?
- g. Write a note on excipients used in the manufacturing of parenterals.

