

ODISHA STATE BOARD OF PHARMACY

24/01/2023

D. Pharm Part (I)

ER 2020

2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

Subject: PHARMACEUTICS (Theory)

Full Mark -80

Time -3 hrs

1. Long type questions (answer any six)

[6x5=30]

- i. Define Immunity. Write down the details about small pox vaccine. (1+4=5)
- ii. Define tablet. Write down the details about excipients used in tablet preparation with suitable examples. (1+4=5)
- iii. Discuss different methods for identification of types of emulsion. (5)
- iv. Define Q.A & Q.C. Write briefly about cGMP. (2+3)
- v. Write down the principles, construction, working and application of Ball Mill with labelled diagram. (1+1+1+1+1=5)
- vi. Write down different quality control tests for tablets. (5)
- vii. Write down different methods used in formulation of parenteral preparations. (5)

2. Short type questions (answer any ten)

[10x3=30]

- i. Write the ideal properties of filter aids. Give two examples of filter aid.
- ii. Write a short note on homogenisation.
- iii. Write a short note on Soxhlet extraction.
- iv. Write a short note on sterilization.
- v. Differentiate between flocculated and deflocculated suspension.
- vi. Write notes on factor affecting size reduction.
- vii. Define diffusible solid & indiffusible solid.
- viii. Write down the difference between liniments and lotions
- ix. Write short note on fusion method of preparation of suppositories.
- x. Differentiate between calibration and validation.
- xi. Write a short note on effervescent granules.

3. Objective type Questions, Answer all from both sections, Each carries One mark (20x1)

(A) DEFINE THE FOLLOWING

- i) Impact ii) Co-solvent. iii) Colloidal suspension. iv) enteric coated tablet v) Microencapsulation
vi) Clarification vii) Lyophilisation viii) Sieve number ix) Mottling x) Opsonin.
xi) Pharmacopoeia xii) Elixir xiii) Tablets xiv) Poultice xv) Extraction

(B) ANSWER THE FOLLOWING.

- i. Give two major differences between emulsion and suspension.
- ii. Differentiate between 'purified water' and 'water for injection'.
- iii. Write advantages of evaporating pan.
- iv. Give two examples of wetting agent.
- v. What is prodrug.
