



1. Attempt any **THREE** from the following question

3 x 5 = 15

- a. Enlist various rules for handling of chemicals and it's safely.
- b. Enlist rules for using microscope.
- c. What is the function of laboratory water bath and enlist various precautions should be taken when handling a water bath?
- d. Identify different types of meteorology, microbiology, and biochemistry instruments.

2. Attempt any **ONE** from the following question

1 x 10 = 10

- a. Cultivation of cabbage is the recommended dose of fertilizer (NPK) is 150: 60:50 kg per ha. Calculate the how much Urea, SSP and MOP will be required for this cultivation.
- b. Cultivation of Rice is the recommended dose of fertilizer (NPK) is 130: 60:60 kg per ha. Calculate the how much DAP, Urea and MOP will be required for this cultivation.

3. Attempt any **TWO** from the following question

2 x 10 = 20

- a. Classify Basic Laboratory Procedures which you follow during laboratory works.
- b. Briefly explain various types of glassware and guide to cleaning glassware.
- c. Illustrate different types of microscope and their working principles and also enlist simple microscope parts.

4. Attempt any **TWO** from the following question

2 x 10 = 20

- a. Estimation of soil EC and P^H
- b. Preparation of Buffer solution.
- c. Estimation of chlorophyll.

5. Attending of Viva-voce

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6. Practical Note book

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