

N.B.

1. All questions are compulsory.
2. Draw neat labelled diagrams wherever necessary.
3. All questions carry equal marks.

- Q.1. Answer the following questions in brief (any two) 16**
- a What is a pharmacopoeia? Describe briefly about Indian Pharmacopoeia.
 - b Explain various types of substitution and adulteration with examples.
 - c What is TLC technique? Discuss briefly about phases and procedure of TLC.
 - d Explain concept of substitute by taking example of Jaiphal and Jaipatri.
- Q.2. Answer the following questions in brief (any two) 16**
- a How would you execute agro-forestry in a given area?
 - b Define social forestry. Add a note on aims and objectives of it.
 - c Enlist fibre yielding plants. Describe any one plant as source of fibre.
 - d Describe cardamom plant with respect to source, cultivation and uses.
- Q.3 Answer the following questions in brief (any two) 16**
- a What are enzymes? Add a note on industrial application of Cellulase.
 - b Define aromatherapy. Give botanical name, chemical constituents, applications and uses of Lemon.
 - c Describe the botanical source, nutritional value and uses of Kokum
 - d Explain the importance and scope of Botanical and Nutraceuticals. Add a note on Spinach as nutraceutical.
- Q.4 Choose and write the correct option for the following questions (Attempt all MCQs) 12**
- a In light microscope, _____ controls the amount of light reaching the specimen and is located above the condenser and below the stage.
a) Mirror b) Iris Diaphragm c) Objective lens d) Nose piece
 - b Para-phenylenediamine is used as an adulterant in herbal _____
a) Face pack b) Hair oil c) Face wash d) Hair dye
 - c IHP stands for _____ which covers about 52 monographs of Indian medicinal plants.
a) Indian Pharmacopoeia b) Indian Herbal Pharmacopoeia
c) Indian Ayurvedic Pharmacopoeia d) Indian History Pharmacopoeia
 - d In pharmacognostic study of a drug, _____ instrument is used for determination of ash values.
a) Shaker b) HPLC c) Microscope d) Muffle furnace
 - e Degraded land is the land which has lost _____
a) Salts b) Water c) Oxygen d) Productivity
 - f Among all spices _____ is known as 'King of Spices'.
a) Clove b) Mustard c) Cardamom d) Black pepper

