

Note the below:

1. All the questions are compulsory.
2. Draw neat & suitable diagrams wherever necessary.
3. Figures to the right indicate full marks.

Q 1. A. Choose the correct option & rewrite the statements:

(10 Marks)

1. I.P.C. stands for _____.
 a. Indian Pharmacopoeia Commission b. Indian Pharmacy Commission c. Indian Pharmacopoeia Committee d. Indian Pharmacopoeia Council
2. _____ is used as a substitute in place of *Bacopa monnieri*.
 a. *Polyalthia longifolia* b. *Terminalia arjuna* c. *Centella asiatica* d. *Phyllanthus amarus*
3. Literal meaning of pharmacopoeia is _____.
 a. drug organization a. drug making c. Medicinal plants d. none of these
4. Glycyrrhizin is the secondary metabolite found in _____.
 a. *Terminalia tomentosa* b. *Glycyrrhiza gabra* c. *Bacopa monnieri* d. *Saraca asoca*
5. _____ is the Scientific name of Saffron.
 a. *Crocus sativus* b. *Cocos nucifera* c. *Corchorus capsularis* d. *Curcuma longa*
6. Cardamom belongs to family _____.
 a. Malvaceae b. Zingiberaceae c. Arecaceae d. Caesalpinaceae
7. _____ is the high altitude himalayan forest.
 a. Alpine forest b. Tropical dry deciduous c. Tropical moist forest d. Thorn Forest
8. _____ is commonly known as Jojoba
 a. *Simmondsia chinensis* b. *Ananus cosmosus* c. *Citrus limon* d. *Garcinia cambogia*
9. Vanillin is obtained from _____.
 a. *Garcinia cambogia* b. *Citrus limon* c. *Ananas comosus* d. *Vanilla planifolia*
10. Lemon is a rich source of vitamin _____.
 a. C b. A c. B12 d. K

(10 Marks)

Q 1. B Answer the following in one sentence

- a. Define monograph
- b. Sources of tannin
- c. Name any two types tropical forest found in Indian sub-continent.
- d. Enlist the source of Papain.
- e. Define Biofuel.

Q 2. Answer the following questions (Any two) (20 Marks)

1. Explain Indian Herbal Pharmacopoeia and Ayurvedic Pharmacopoeia.
2. Explain with suitable examples the effect of regional and seasonal variation in Secondary metabolites.
3. What are alkaloids? Add a note on its properties.
4. Define and differentiate between primary and secondary metabolites? What is the role of secondary metabolite in plants.

Q 3. Answer the following questions (Any two) (20 Marks)

1. Describe any 2 different types of tropical forest in India.
2. Describe the Cultivation practices and post harvesting of Cardamom.
3. Describe the Cultivation practices and post harvesting of Cotton.
4. Explain the Market scenario for Spices and Fibres in India.

Q 4. Answer the following questions (Any two) (20 Marks)

1. What is Aromatherapy? Describe any two plants used in Aromatherapy.
2. Give the botanical source, scientific name, family, nutritional value and uses of *Spirulina*.
3. What are enzymes? Give the properties and uses of Papain.
4. Describe the different generations of Biofuel.

Q 5. Short Notes (Any four)

1. Significance of Indian Pharmacopoeia
2. Uses of Gums
3. Sub- alpine forest
4. Silviculture
5. Uses of Jasmine
6. Nutritional value and uses of *Chlorella*

(20 Marks)
