

[Time: Three Hours]

[Marks: 100]

N.B:

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

Q.1 A) Choose the correct option from the following and rewrite the sentence 10

1. Quinine is used as _____ drug.
a) Hypotensive b) Anti malarial
c) CNS Stimulant d) Hypertensive.
2. *Saraca asoca* belongs to family _____.
a) Caesalpinaceae b) Fabaceae
c) Acanthaceae d) Combretaceae
3. _____ is a constituent of Beach Forest.
a) *Hydrilla* b) *Opuntia*
c) *Casuarina* d) *Terminalia*
4. _____ is used in the treatment of indigestion.
i. *Chlorella* ii. kokum iii. vanillin iv. *Spirulina*
5. Saffron is a common name for _____.
a) *Crocus sativas* b) *Elettaria cardamom*
c) *Aframomum* sps. d) *Syzigium cuminii*
6. _____ is used as substitute in place of *Bacopa monnieri*
a) *Abrus precatorius* b) *Phyllanthus longifolia*
c) *Centella asiatica* d) *Polyalthia longifolia*
7. _____ is the example of surface fibre.
a) Cotton b) Coir
c) Jute d) hemp
8. Vanillin is obtained from _____ of Vanilla plant.
a) Leaves b) Roots
c) Stem d) Pods
9. _____ is also known as Papaya protease.
a) Bromelain b) Papain
c) Cellulase d) Ananain
10. *Brassica oleracea* is commonly known as _____.
a) Kale b) Jojoba
c) Lemon d) Kokum

1 B) Answer in one or two sentences 10

1. Which plant is known as false ashoka?
2. Name ANY TWO active constituents of *Saraca asoca*
3. Define Agroforestry
4. Enlist any 2 uses of *Garcinia indica*.
5. Enlist any 2 health benefits of Bromelain.

Q. 2 Answer the following questions in brief (any two) 20

- a) Define and differentiate between primary and secondary metabolites. What is the role of secondary metabolite in plants.
- b) Describe the concept of adulterant/substitute with example of *Glycyrrhiza glabra* & *Abrus precatorius*.
- c) Explain the monograph of *Terminalia arjuna*.
- d) Define Pharmacopoeia. Write a note on significance of Ayurvedic Pharmacopoeia.

Q. 3 Answer the following questions in brief (any two) 20

- a) Explain silviculture. State the objective of silviculture.
- b) Give the biological source and processing of jute fiber.
- c) Describe in brief the Moist Tropical forests in India.
- d) Give biological source, morphology and uses of saffron.

Q. 4 Answer the following questions in brief (any two) 20

- a) What is Aromatherapy? Discuss in brief its commercial uses and applications.
- b) Give the nutritional value and uses of *Spirulina* and Vanillin.
- c) What is Bromelain? Give the properties and uses of Bromelain.
- d) What are Biofuels? Give an account on types of Biofuels.

Q. 5 Write short notes on: (any four) 20

1. Indian Pharmacopoeia of India
2. Regional and Seasonal variation
3. Alpine Forests
4. Organic farming
5. Uses of Jasmine
6. Nutritional value and Uses of Jojoba
