

Total No. of Pages :02

Paper ID : [72298]

Max. Marks : 80

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

Q.1 Answer briefly :

- (a) Define chemotaxonomy.
- (b) Write two uses each for mentha oil and diosgenin.
- (c) Give the full form of HS and SITC codes.
- (d) What are photosensitizing agents?
- (e) Give structure of quinine and glycyrrhizin.
- (f) Name two institutions involved in the research on medicinal and aromatic plants in India.
- (g) Write full form of EMEA.
- (h) Give complete biological source of geranium oil.
- (i) Define elicitors.
- (j) Write four macro nutrients required for preparation of media in plant tissue culture.

- (k) Give the source and commercial utilization of vetiver oil.
- (l) Give complete source, importance and HS code of Ipecac.
- (m) What are multiple shoot cultures?
- (n) Draw structure of reserpine and give its complete biological source.
- (o) Define health foods. Also give two examples.

SECTION-B

- Q.2 What are nutraceuticals? Write a brief note on the importance of nutraceuticals in drug market.
- Q.3 Discuss the world-wide trade of laxative plants.
- Q.4 Write the utilization of sandal wood oil and its derived products.
- Q.5 Discuss the role of chemotaxonomy in the field of medicinal plants.
- Q.6 Write a brief note on the utilization and production of podophyllotoxin.

SECTION-C

- Q.7 What are herbal cosmetics? Discuss in detail various plants and phytoconstituents used in herbal cosmetics.
- Q.8 Write an elaborated note on Natural Allergens.
- Q.9 Discuss various medicinal agents obtained from marine sources.
- Q.10 How will you differentiate between callus and suspension cultures? What are the requirements for developing both types of cultures?