

Q.P. Code : 77200

(2 ½ Hours)

[ Total Marks : 75 ]

- N.B. : (1) All questions are compulsory.  
(2) Draw neat and labelled diagrams, wherever necessary.  
(3) All questions carry equal marks.

1. Answer any two of the following: 15
  - (a) Give an account of different branches of Ethnobotany.
  - (b) Explain different methods of collection of data in Ethnobotany.
  - (c) Define Bonsai. Explain the method used for making bonsai with suitable plant examples.
  - (d) With respect to Indian ceremonies, describe different styles of fresh flower arrangements.
2. Answer any two of the following: 15
  - (a) Discuss any three techniques of drying with reference to preservation of fruits and vegetables.
  - (b) Explain various methods of freezing in food preservation.
  - (c) Give an account of pickling as a method of food preservation.
  - (d) Write a note on sugar concentrates in preservation of fruits.
3. Answer any two of the following: 15
  - (a) Explain the various methods for collection and processing of herbal materials in cosmetic preparations.
  - (b) Describe the processes used for natural and artificial drying of herbal materials in cosmetology.
  - (c) Describe the qualitative estimation of phytoconstituents in herbal raw materials.
  - (d) Enlist the herbal materials used in herbal face mask and herbal bath oil. Add a note on their significance.

4. Answer any two of the following:

- (a) Give an account of classification of Biological database.
- (b) Comment on BLAST as a retrieval tool of Biological data.
- (c) Give an account of comparative modeling for protein structure analysis.
- (d) Write an explanatory note on phylogenetic analysis.

5. Answer any three of the following:

- (a) Enlist the applications of Ethnobotany.
- (b) Write a note on aesthetic value of Ikebana.
- (c) Comment on the chemicals used as food preservatives.
- (d) Comment on future prospects of herbal cosmetic industry in India.
- (e) Enlist herbal materials used in herbal shampoo.
- (f) Write a short note on EMBL.