

2019

B.Sc. (Hons.)

4th Semester Examination

BOTANY

Paper - SEC2T

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Medicinal Botany

1. Answer any *five* questions from the following :

5×2=10

- (a) What is red data book?
- (b) What is meant by seed bank?
- (c) Give the scientific name of a medicinal plant used in high blood pressure and mention the plant part used.
- (d) *Difference between grafting and layering.*

[Turn Over]

- (e) What is ethnomedicine?
- (f) What is micropropagation technique.
- (g) Difference between exsitu an insitu conservation.
- (h) Write the full form of IUCN.

2. Write short notes on any *four* of the following:

4×5=20

- (a) Ayurveda system of medicine.
- (b) Objectives of nursery.
- (c) Sacred groves.
- (d) Various methods of plant propagsation.
- (e) Palaeoethnobotany and ethnic communities of India.
- (f) Botanic gardens in relation to plant conservation.

3. Answer any *one* question from the following :

1×10=10

- (a) Define Ethnobotany. Why is it called multidisciplinary subject? Write with examples the applications of ethnobotanical knowledge in development of novel economic as well as pharmaceutical products.

2+2=6

(b) Elaborate briefly on : 5×2

- i) Polyherbal formulation in Unani System.
- ii) Role of National Park for conserving medicinal plants.

Mushroom Culture Technology

1. Answer the following questions (any *five*) : $5 \times 2 = 10$

- (a) Write down the medicinal value of the edible mushroom.
- (b) How can you identify the poisonous mushroom?
- (c) Write the name of two research centre of mushroom cultivation.
- (d) What is spawn?
- (e) Write about the prospect of marketing of mushroom in India and abroad.
- (f) What is meant by pure culture.
- (g) Write down the name of two poisonous.
- (h) Mention different parts of a mushroom. Which family does it belong?

[Turn Over]

2. Answer the following questions (any *four*): $4 \times 5 = 20$

(a) i) Write down the method of long time storage of edible mushroom. $2\frac{1}{2}$

ii) Write about the nutritinional value of edible mushroom. $2\frac{1}{2}$

(b) i) Write about the types of food prepared from mushroom. $3+2$

ii) Name two edible mushroom available in India.

(c) i) Write about the composting technology in mushroom production. $2\frac{1}{2}$

ii) Write the factors which affect the mushroom bed preparation. $2\frac{1}{2}$

(d) Prepare the list of different amino acids, different mineral elements, vitamins, carbohydrates and crude fibre contents of edible mushroom.

$1+1+1+1+1$

(e) How do you prepare edible mushroom for export? 5

(f) Write notes on -

$2\frac{1}{2}+2\frac{1}{2}$

i) Storage of mushroom in salt solutions.

ii) Harvesting of mushroom during cultivation.

3. Answer the following question (any one) : $1 \times 10 = 10$

(a) Write about one best procedure of mushroom cultivation. What are inoculation hook and inoculation loop used for mushroom cultivation.

8+2

(b) What is thatched house? How spawn are prepared? How can you sterilize the medium for mushroom cultivation? Briefly write on mushroom bed preparation.

2+2+2+4
