

203/Bot(N)

UG/2nd Sem/BOT-SEC-T-02(A&B)/24

U.G. 2nd Semester Examination - 2024

BOTANY

[Skill Enhancement Course (SEC)]

Course Code : BOT-SEC-T-02(A&B)

[NEP-2020]

Full Marks : 25

Time : 1½ Hours

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

Answer all the questions from Selected Option.

OPTION-A

BOT-SEC-T-02A

(Floriculture)

[Marks : 25]

1. Answer any **five** of the following:

1×5=5

- a) Define floriculture.
- b) What do you mean by mulching?
- c) What is Pricking?
- d) Define landscape gardening.
- e) Name one famous and historic flower garden in India.
- f) What is grafting?

[Turn over]

- g) Name one Indian Institute famous for floriculture research and development.
- h) Name one Plant Growth Regulator used in floriculture.
2. Answer any **two** of the following: $5 \times 2 = 10$
- a) What is nursery? Give a brief note on different types of nurseries used in flower gardening. $1+4$
- b) Give a short note on two important diseases of ornamental plants. 5
- c) Illustrate vegetative mode of propagation of ornamental plants. 5
- d) Explain the style of fencing and flower bed of a garden. 5
3. Answer any **one** of the following: $10 \times 1 = 10$
- a) What are the techniques followed in pot gardening and terrace gardening? Mention any two ornamentals each from the following category: (i) Cacti, (ii) Bulbous and (iii) Foliage. $4+6$
- b) Describe the cultivation of Rose and Orchids as cut flowers. Mention the factors which can affect the flower production. What is 'Bonsai'? $6+3+1$

OPTION - B
BOT-SEC-T-02B
(Medicinal Botany)
[Marks : 25]

1. Answer any **five** of the following: $1 \times 5 = 5$
- a) What do you understand by folk medicines?
 - b) Name a plant used in ayurvedic treatment.
 - c) Define ethnobotany.
 - d) What is biosphere reserve?
 - e) In which country and when the 'Unani' system of medicine developed?
 - f) What do you mean by Ethnoecology?
 - g) Distinguish between grafting and budding.
 - h) Give Botanic names of any one plant used in "Siddha" system of medicine.
2. Answer any **two** of the following: $5 \times 2 = 10$
- a) What is polyherbal formulation? Give a brief note on the polyherbal formulation with two merits of this treatment practice. $1 + 4$
 - b) Give the full form of acronym AYUSH. Discuss the "Tridosha" concept in Ayurveda system of medicine. $1 + 4$

c) With example in each case, explain all the categories of IUCN Red list. Name one endemic medicinal plant in India. $4+1$

d) What is indigenous system of medicine? What are Saptadhatu in Ayurveda? $2\frac{1}{2}+2\frac{1}{2}$

3. Answer any **one** of the following: $10 \times 1 = 10$

a) What is '*in-situ*' conservation of medicinal plants? How does it differ with '*ex-situ*' conservation? Give two examples of '*in-situ*' conservation in India and discuss their roles in conservation of RET medicinal plants. $2+2+2+4$

b) Write the botanic name, part/s used and the family of any two plants used for the treatment of the following diseases: $2 \times 5 = 10$

- (i) Jaundice, (ii) Infertility, (iii) Cardiac disease,
(iv) Diabetes and (v) Skin disease.