

U.G. 4th Semester Examination - 2021

BOTANY

[HONOURS]

Skill Enhancement Course (SEC)

Course Code : BOT-H-SEC-T-2A, B & C

Full Marks : 20

Time : 1 Hour

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-H-SEC-T-2A

(Medicinal Botany)

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

1×5=5

- Give the full form of CCIM.
- In which country the “*Siddha*” system of medicine developed?
- Define “Ethnoecology”.
- Give the scientific name and family of a plant used for the treatment of Cardiac disease.

[Turn Over]

- What do you mean by “Sacred Groves”?
- What is “*Rasayana*”?
- Define Green House.
- What do you mean by grafting?

2. Answer any **one** of the following questions:

5×1=5

- Discuss the role of Botanic Garden in the “*ex-situ*” conservation of RET medicinal plants.
- Write a brief note on the Polyherbal formulation and any two merits of this Treatment process. 3+2=5
- Write a brief notes on Saptadhatu and Pancha bhuta. 2+3=5

3. Answer any **one** of the following questions:

10×1=10

- Discuss in detail about the History, Origin and Scope of Ayurveda system of Medicine. 4+3+3=10
- Write the scientific name, parts used and the family of any two plants used for the treatment of the following diseases: 2×5=10
 - Diabetes
 - Jaundice

- iii) Skin diseases
 - iv) High blood pressure
 - v) Infertility
- c) Discuss the “*Tridosha*” concept and “*Rasayana*” of Plants used in Ayurveda System of Medicine. 5+5=10

OPTION-B
BOT-H-SEC-T-2B
(Mushroom Culture)

1. Answer any **five** questions: 1×5=5
- a) Multiplication of mushroom culture.
 - b) What is toad stool?
 - c) What is canning?
 - d) Mineral content of mushroom.
 - e) Medicinal value of mushroom.
 - f) What is compost?
 - g) Scientific name of Paddy Straw mushroom.
 - h) Name two poisonous mushroom.
2. Answer any **one** question: 5×1=5
- a) Describe the preparation of bed for cultivation of Paddy Straw mushroom.

- b) What are the different methods used for long-term storage of mushrooms?
 - c) What are the different factors affecting for cultivation of edible mushrooms?
3. Answer any **one** question: 10×1=10
- a) Discuss the cost benefit ratio for marketing of mushroom in India and abroad.
 - b) Describe the composting technology in mushrooms production.
 - c) What are the different types of foods prepared from mushrooms? Explain.

OPTION-C
BOT-H-SEC-T-2C
(Intellectual Property Rights)

1. Answer any **five** of the following: 1×5=5
- a) Name one category of IPR that are primarily associated with industrial application.
 - b) Give the full form of TRIPS.
 - c) Name one important food GIs from West Bengal.

- d) Give one difference between IPR and other property rights.
- e) Name an online plagiarism checker software.
- f) What does infringement of copyright mean?
- g) What is moral right within the concept of copyright?
- h) Give an example of biopiracy.

2. Answer any **one** of the following: $5 \times 1 = 5$

- a) Give an outline of the procedure of obtaining patent in India.
- b) What type of protection is available for plant varieties in India? Write a short note on the Regulatory authority and their role in protection of such IP.
- c) Name one common characteristic of commodities that gain protection under Geographical Indications. What are the different means of providing protection under GI in India?

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

- a) What are the essential criteria for obtaining patents? Give an elaborate account of non-patentable inventions.

- b) What is the full form of WIPO? Where is it based? Write an explanatory note on how WIPO governs IPR regime all over the world.
- c) What are industrial designs? How are they different from trademarks? What is 'passing off' in the context of trademarks? Write a short note on infringement with reference to both industrial designs and trademark.
