

Total number of printed pages-8

3 (Sem-6/CBCS) BOT SEC 1/2

2025

BOTANY

(Skill Enhancement Course)

Answer the Questions from any one Option.

OPTION - A

Paper : BOT-SE-6014

(*Ethnobotany*)

OPTION - B

Paper : BOT-SE-6024

(*Mushroom Culture Techniques*)

Full Marks : 50

Time : Two hours

***The figures in the margin indicate
full marks for the questions.***

OPTION - A

Paper : BOT-SE-6014

(Ethnobotany)

Answer **either** in English **or** in Assamese :

1. Answer the following questions : $1 \times 4 = 4$

তলৰ প্ৰশ্নবোৰৰ উত্তৰ লিখা :

(a) Who coined the term 'Enthnobotany' ?
'Enthnobotany' শব্দটো কোনে সৰ্বপ্ৰথমে ব্যৱহাৰ
কৰিছিল ?

(b) Who is known as the 'Father of Indian
Ethnobotany'.

ভাৰতবৰ্ষৰ নৃগোষ্ঠীয় উদ্ভিদবিদ্যাৰ জনক কোন ?

(c) What do you mean by ethnotoxicology ?
নৃগোষ্ঠীয় বিষবিদ্যা বুলিলে কি বুজা ?

(d) Mention a use of *Azadirachta indica*.

Azadirachta indica-ৰ এবিধ ব্যৱহাৰ উল্লেখ কৰা।

2. Answer the following questions briefly : $2 \times 3 = 6$

তলত প্ৰশ্নবোৰৰ উত্তৰ চমুকৈ লিখা :

(a) What are sacred groves ? Mention with
an example.

পৱিত্ৰ অৰণ্য কি ? উদাহৰণসহ উল্লেখ কৰা।

(b) What are fermented foods ? Why are they
important ?

কিঞ্চিত খাদ্য কি ? এইবিধ খাদ্য কিয় উপযোগী ?

(c) What do you mean by Traditional
Knowledge System ?

পৰম্পৰাগত জ্ঞান প্ৰণালী বুলিলে কি বুজা ?

3. Write short notes on the following : **(any two)**

$5 \times 2 = 10$

চমু টোকা লিখা : (যিকোনো দুটা)

(a) Biopiracy

জীৱ-চোৰ

(b) Ancient Indian scriptures as a source of
ethnomedicine

লোক-ঔষধৰ উৎসস্বৰূপে প্ৰাচীন ভাৰতীয় গ্ৰন্থ

(c) Scope and objective of ethnobotany

নৃগোষ্ঠীয় উদ্ভিদবিদ্যাৰ পৰিসৰ আৰু উদ্দেশ্য

(d) Ethno-dietetics

লোক-পুষ্টিবিজ্ঞান

4. Answer the following : (any three) $10 \times 3 = 30$

নিম্নোক্ত যিকোনো তিনিটা প্ৰশ্নৰ উত্তৰ লিখা :

(a) Describe briefly the significance of the following plants in ethnobotany :

(i) *Indigofera tinctoria*

(ii) *Ocimum sanctum*

(iii) *Vitex negundo*

(iv) *Gloriosa superba*

নৃগোষ্ঠীয় উদ্ভিদবিদ্যাত তলৰ উদ্ভিদসমূহৰ তাৎপৰ্য্য সম্পৰ্কে
চমু বিৱৰণ দিয়া :

(i) *Indigofera tinctoria*

(ii) *Ocimum sanctum*

(iii) *Vitex negundo*

(iv) *Gloriosa superba*

(b) Give an account of the role of ethnobotany in modern medicine with special reference to *Artemisia vulgaris* and *Withania somnifera*.

Artemisia vulgaris আৰু *Withania*

somnifera-ৰ বিশেষ উল্লিখনসহ আধুনিক চিকিৎসা
পদ্ধতিত নৃগোষ্ঠীয় উদ্ভিদবিদ্যাৰ ভূমিকা সম্পৰ্কে লিখা।

(c) What do you mean by participatory forest management? Discuss how it helps in the protection of endangered species.

অংশগ্ৰহণমূলক অৰণ্য ব্যৱস্থাপনা বুলিলে কি বুজা?
বিপন্ন প্ৰজাতিসমূহৰ সুৰক্ষাত ই কেনেকৈ সহায় কৰে
আলোচনা কৰা।

(d) Discuss the role of ethnic groups in conservation of plant genetic resources.

উদ্ভিদ জিনীয় সম্পদৰ সুৰক্ষাত নৃগোষ্ঠীয় গোটসমূহৰ
ভূমিকা সম্পৰ্কে আলোচনা কৰা।

(e) What are IPRs? Discuss how IPR can be helpful in protecting the interest of ethnic groups.

IPR-সমূহ কি? নৃগোষ্ঠীয় স্বার্থ সুৰক্ষিত কৰি ৰখাত IPR
কেনেদৰে সহায়ক হ'ব পাৰে আলোচনা কৰা।

(f) Give an account of an indigenous ethnic group of Assam with reference to the ethnobotanical aspects in their lifestyle.

জীৱনযাপন প্ৰক্ৰিয়াত নৃগোষ্ঠীয় উদ্ভিদবিদ্যাৰ প্ৰয়োগৰ
উল্লেখৰে অসমৰ এটা থলুৱা জনগোষ্ঠীৰ বিৱৰণ দিয়া।

OPTION - B

Paper : BOT-SE-6024

(Mushroom Culture Techniques)

1. Answer the following questions : $1 \times 4 = 4$

(a) *Agaricus bisporus* belongs to the family _____.
(Fill in the blank)

(b) What is the other name of mushroom ?

(c) In India where Mushroom Research Centre is located ?

(d) Basidiocarp consists of a fleshy stalk called _____.
(Fill in the blank)

2. Answer **any three** of the following questions :
 $2 \times 3 = 6$

(a) What is spawn of mushroom cultivation ?

(b) Mention *two* medicinal values of edible mushroom.

(c) Mushroom production involves composting technology—Justify.

(d) Name *two* poisonous mushrooms.

3. Answer **any two** of the following questions :
 $5 \times 2 = 10$

(a) How can you differentiate an edible mushroom from poisonous one ? Add a note on poisonous effects and symptoms on human body.

(b) Distinguish between inoculation hook and inoculation loop.

(c) Write a detailed note on the pests of mushroom cultivation.

(d) Give a brief account on the research institutes involved in mushroom culture technology in India.

4. Answer **any three** of the following questions :
 $10 \times 3 = 30$

(a) Describe the various recipes of mushroom. Add a note on nutritional value of mushroom.
 $7 + 3 = 10$

(b) Describe the importance of Regional and National Research Institute of mushroom cultivation in India.

(c) Describe the paddy straw mushroom cultivation in detail. What precaution will you take during cultivation ?
 $7 + 3 = 10$

- (d) Suppose you are a small-scale mushroom grower, what strategy will you take for marketing?
- (e) After harvesting of mushroom, what procedure will you follow to maintain its longevity?
- (f) Write an account on *any three* edible mushrooms of India. Mention *two* costly mushroom species. 8+2=10
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