## CENTRAL LIBRARY N.C.COLLEGE

# 2020/TDC(CBCS)/ODD/SEM/ BOTSEC-501T/146

# TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021

### **BOTANY**

(5th Semester)

Course No.: BOTSEC-501T

(Ethnobotany)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

#### SECTION-A

Answer any fifteen of the following questions:

1×15=15

- 1. What is ethnobotany?
- 2. Name two major tribes of your region.
- 3. Name one wild edible plant used as food by ethnic people.

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(Turn Over)

(2)

- 4. Who coined the term 'ethnobotany'?
- **5.** Name one major festival of Bodo tribe of Assam.
- 6. What is a tribe?
- 7. What is sacred groves?
- 8. What is herbarium?
- 9. Name one holy plant used by Hindu people.
- 10. What is vernacular name?
- 11. What is archaeology?
- 12. What do you mean by documentation?
- 13. What is medico-ethnobotany?
- 14. Name the family of Gloriosa superba.
- **15.** What type of fruit is found in *Indigofera* tinctoria?
- 16. Give one example of ethno-medicinal plant.
- 17. Write the scientific name of Tulsi and its family.
- **18.** Write the scientific name of Neem and its family.
- 19. What is endangered taxa?

- 20. Name the family of Rauvolfia serpentina.
- 21. What do you mean by modern system of medicine?
- **22.** Name one endangered plant species of Assam.
- 23. What is the main chemical constituent of Withania?
- **24.** Name one example of plant species used in modern system of medicine.
- 25. What is biopiracy?
- 26. What is indigenous knowledge?
- 27. What is folklore?
- 28. What do you mean by folk medicine?
- 29. What is intellectual property rights?
- 30. What is biopatent?

#### SECTION—B

Answer any five of the following questions:  $2 \times 5=10$ 

- **31.** What are the objectives of ethnobotanical study?
- **32.** How does traditional knowledge help in ecology?

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- **33.** What are the common tools in herbarium methodology of ethnobotanical studies?
- **34.** What is the scope of ethnobotany?

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- **35.** What are the medicinal uses of *Pongamia* pinnata?
- **36.** Write a note on morphology of *Ocimum* sanctum.
- **37.** What do you mean by plant genetic resource?
- **38.** What do you mean by participatory forest management?
- 39. How can we prevent biopiracy?
- **40.** What are the types of intellectual property rights?

#### SECTION-C

Answer any *five* of the following questions:  $5 \times 5 = 25$ 

- **41.** Write a note on ethnobotany as an interdisciplinary science.
- **42.** Write the scientific names and families of five food plants used by tribals.

- **43.** Write a note on fieldwork for ethnobotanical studies.
- **44.** Write a note on ancient literature on ethnobotany.
- **45.** Write a note on medico-ethnobotanical sources in India.
- **46.** Write a note on morphology and ethnobotany of *Azadirachta indica*.
- **47.** Write a brief account on the role of ethnobotany in modern medicine with examples.
- **48.** Mention five endangered taxa and mention their name of families.
- 49. Distinguish between traditional knowledge and modern system of medicine.
- **50.** Write a short note on intellectual property rights.

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# 2020/TDC(CBCS)/ODD/SEM/ BOTDSE-501T/145

# TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021

#### **BOTANY**

(5th Semester)

Course No.: BOTDSE-501T

(Analytical Techniques in Plant Sciences)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

#### SECTION-A

Answer any fifteen of the following questions:

1×15=15

- 1. What is resolution power of a microscope?
- 2. Define magnification.
- 3. What is cyto fixation?

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(Turn Over)

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4.	Define flow cytometry.	

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- 5. What do you mean by shadow-casting?
- 6. What is the magnification at which oil immersion is used?
- 7. Define centrifugation.
- 8. Name a chemical agent used in density gradient centrifugation product is a chemical.

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- 9. What is cell fractionation?
- **10.** Define radioisotopes.
- 11. What is the importance of marker enzymes?
- 12. What is differential centrifugation?
- 13. Define chromatography
- 14. What is: silica gel? And the best with
- 15. What do you mean by spectrophotometry?
- **16.** What is the basic principle of molecular sieve chromatography?
- 17. What is  $R_f$ ?

10-21/**141** (Continued)

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	Name two solvents used in paper chromatography.	. •
	What is the full form of PAGE?  What is the full form of PAGE?	
20.	Define mass spectrometry.	Ę
21.	What is the other term of X-ray crystallography?	€
22.	Name the blotting technique used for protein characterization.	2. E
23.	Name the blotting technique used for RNA analysis.	
24.	What is Southern blotting?	0
25.	Define data.	i C
26.	What is population?	Ê
27.	What is parameter?	膝
	Define biostatistics.	
29.	What is variance?	
30.	What is arithmetic mean?	4.
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	tragina - Section—B	
Ansv	wer any <i>five</i> of the following questions: 2×5	
31.	Differentiate between SEM and TEM.	
32.	Write about freeze fracture.	<b>(</b> ·
33.	Write a note on tracer technique.	•
34.	What is reversed phase chromatography?	
35.	Define ion-exchange chromatography.	
36.	Write the full form of FISH.	
37.	Write a brief note on SDS-PAGE.	
38.	Write about nucleic acids.	: .
39.	Write a note on variance.	. •
40.	Briefly explain the measures of dispersion.	
	SECTION—C	•
	Answer any five questions	• ]
41.	Give a detailed account of fluorescence	

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42.	Write an illustrated account of chromosome	
	banding.	5
43.	Write an essay on ultracentrifugation.	5
44.	Give a detailed account of autoradiography.	5
45.	Write an explanatory note on TLC.	5
46.	Give a brief account of affinity chromatography.	5
47.	Describe principle and application of HPLC. 4+1=	=5
48.	Give a detailed account of electrophoresis.	5
49.	Write notes on median and mode. $2\frac{1}{2}+2\frac{1}{2}$	=5
50.	Describe Chi-square test for goodness of fit.	5
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