

**M.Sc. 3rd Semester Examination, 2023**

**BOTANY**

**PAPER – BOT-304.1 & 304.2(CBCS)**

*Full Marks : 50*

*Time : 2 hours*

Answer **all** questions

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

**PAPER – BOT-304.1**

**[ Marks : 20 ]**

A . Answer any *two* from the following : 2 × 2

1. Name the largest Ramsar site in India.
2. What are the three main goals of CBD ?

3. What is Rio Summit ?

4. What is social ecology ?

B. Write short notes on any *two* from the following: 4 × 2

5. CITES

6. Silent Valley movement

7. Montreal Protocol

8. Ramsar convention.

C. Answer any *one* from the following: 8 × 1

9. Briefly describe Kyoto protocol. Name two green house gases.

10. Why Chipko movement was started ?  
Write a short note on *Beij Bachao Andolan*.

**PAPER – BOT-304.2**

**[ Marks : 20 ]**

**A . Answer any *two* of the following : 2 × 2**

- 1. What is redifferentiation in callus culture of plant ?**
- 2. How is the Innate Russet Burbank potato superior to the conventional potato ?  
What is the benefit of that ?**
- 3. What is Pudding ? What are different types of pudding found ?**
- 4. Name any one fermented non-liquid food, its starting material and the fermenting agent.**

B. Answer any *two* of the following :  $4 \times 2$

5. Define meristemoid and embroids mentioning their significance. What is xylogenesis and how is it useful ?  $2 + 2$

6. How is transgenic Bollgard II cotton genetically modified and advantageous over the common cotton ? 4

7. Give a brief account of four uses of microbial biotechnology. 4

8. How does beer differ from wine ? Give a schematic account of beer production procedure.  $2 + 2$

C. Answer any *one* of the following :  $8 \times 1$

9. What is shoot apex culture ? Why is it effective in raising virus free plantlets ?  $4 + 4$

10. Give a comprehensive account of two oriental fermented food, source materials and their production. Give schematic diagram on production of cheese. 4 + 4

**[ Internal Assessment – 10 Marks ]**

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