

**M.Sc. 3rd Semester Examination, 2022**

**BOTANY**

*( Plant and Environment/Biotechnology and  
Human Welfare )*

**PAPER – BOT-304.1 & 304.2 (CBCS)**

*Full Marks : 40*

*Time : 2 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*

**PAPER--BOT-304.1**

*( Plant and Enviornment )*

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

**1. What is pneumatophore ?**

2. Name the scientific name of two mangrove plants.
3. Define biodiversity.
4. What is ecosystem ?

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

5. Chipko movement

4 × 2

6. Social forestry

7. Joint Forest Management (JFM)

8. Adaptive features of mangroves.

C. Answer any *one* from the following :

8 × 1

9. Briefly describe the Rio-Summit. Write about The book "Silent Spring".

6 + 2

10. What is phytoremediation ? Give two examples. Comment on the importance of phytoremediation.

2 + 2 + 4

**PAPER—BOT-304.2**

( *Biotechnology and Human Welfare* )

D. Answer any *two* questions : 2 × 2

11. What are different types of wine produced in India ?
12. Mention different casing materials used in sausage production.
13. Write names of two petrocrops.
14. What is Flavr-savr tomato ?

E. Answer any *two* questions : 4 × 2

15. Write the methods of cheese production and mention its different uses.
16. Schematically present the procedure of biodiesel production.
17. What is totipotency ? How can it be efficiently exploited in plant tissue culture ?

18. Write note on oriental fermented foods.

F. Answer any *one* question : 8 × 1

19. What is meristemoid ? Write briefly on callus culture and its applications. 2 + 6

20. Write a simple process of wine production and mention the name of raw materials used in its production. 6 + 2

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