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**PG/HIS/BOT/204/25(CBCS)**

**M. Sc. 2nd Semester Examination, 2025**

**BOTANY**

*(Botany & Society)*

**PAPER – BOT-204 (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*

**SECTION – I**

**GROUP – A**

**Answer any two questions :  $2 \times 2$**

- 1. Write down the adaptive features shown by the early pteridophytes during their migration from water to land.**

*( Turn Over )*

( 2 )

2. Name the gymnosperm species which produces anti-cancerous drug and also mention the compound having anti-cancerous property.
3. Name two types of accessory pigments in algae and mention their function.
4. Write two importance of lichens.

### GROUP-B

Answer any two questions : 4 × 2

5. Write a note on economic importance of pteridophytes. 4
6. Discuss three domain concept. 4
7. Name two primitive and two advanced angiosperms. 4

( 3 )

8. What are the different cell shapes found in bacteria? 4

### GROUP - C

Answer any one question : 8 × 1

9. What is vascular strand of plant? Name all major elements of it in higher plants and their respective roles. 1 + 4 + 3

10. What is bog moss? Write two uses of it. Why is sphagnum not a true moss? Write down the characteristic features of an early vascular plant. 1 + 2 + 2 + 3

### SECTION - II

#### GROUP - A

Answer any two questions : 2 × 2

11. Name two essential oil yielding plants with their families.

12. Write the alkaloids obtained from *Adhatoda* and mention their utilities.
13. Name two spices used as digestive. Mention their families.
14. What is diatomaceous earth? Write one use of it.

**GROUP - B**

Answer any two questions : 4 × 2

15. Write down the botanical name of one cereal and one pulse and also mention their economic values. 2 + 2
16. Name two natural fibre yielding plants. Write their uses. 2 + 2
17. Write a note on 'ginger and health care'. 4

18. Write down the scientific name of vetiver grass with its family. Mention the usefulness of vetiver. 2 + 2

GROUP - C

Answer any one question : 8 × 1

19. Write down the different ranks of coal. What is the age of Indian coal ? What is amber and write its uses. 3 + 1 + 4
20. Write the botanical name of one beverage yielding and one dye producing plant. Mention the families, active principles and uses of the following plants : *Centella asiatica*, *Andrographis paniculata*. 2 + 6

[ Internal Assessment — 10 Marks ]

