

M. Sc. 2nd Semester Examination, 2025

BOTANY

(Palynology & Pollination Ecology)

PAPER – BOT-203

Full Marks : 25

Time : 1 hour

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

GROUP – A

Answer any two of the following : 2 × 2

- 1. What are syncolpate and parasyncolpate pollen types ?**

(Turn Over)

2. What is pollinosis or hay fever ? Name the Ig responsible for allergic reactions.
3. What are two major layers of a pollen grain wall and how do they differ in chemical composition ?
4. What is NPC system ? Who proposed it ?

GROUP-B

Answer any two of the following : 4×2

5. Write a note on different types of shape seen in pollen grains.
6. All palynomorphs are microfossils but all microfossils are not palynomorphs. Justify.
7. Write a brief note on forensic palynology.
8. Describe the characteristics of bird pollination syndrome.

(3)

GROUP - C

Answer any one of the following : 8×1

9. What are intectate and pertectate pollen grains ? Diagrammatically discuss different types of elevations found in the walls of the pollen grains. $2 + 6$
10. Distinguish between stenopalynous and eurypalynous taxa. How palynology helps to delimit the different taxonomic ranks of angiosperms ? $2 + 6$

[Internal Assessment - 05 Marks]

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