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B.Sc./3rd Sem/BOT/24(NEP)

2024

3rd Semester Examination (CCFUP : NEP)

BOTANY

Paper : MJ A2-T (Multidisciplinary Major)

(Morpho-Anatomy and Taxonomy of Plants)

Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

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

Group - A

Answer any *five* questions · $2 \times 5 = 10$

1. What is key? Mention its type. 1+1
2. Mention verticillaster inflorescence with an example. 1+1
3. Mention the full form of ICN and IUCN. 1+1
4. State the difference between conjoint and open type of vascular bundle. 1+1
5. Mention the difference between flora and fauna.
6. What is bract and stipule? 1+1
7. What do you mean by fruit and seed? 1+1

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8. Mention the concept of opposite and alternate phyllotaxy. 1+1

Group - B

Answer any *four* questions : 5×4=20

9. Elaborately mention the types of Aestivation in flower with example.
10. Write the different types of compound leaves with example.
11. What is floral formula? Describe the following formula :



12. Mention the principle of ICN.
13. Mention the floral character of Malvaceae and Papilionaceae. 2½+2½
14. Mention the different types of stomata with example.

Group - C

Answer any *one* question : 10×1=10

15. Mention the merit and demerit of Artificial System of classification. Briefly mention the Classification System of Bentham and Hooker (up to series). 4+6
16. Mention the floral types and fruit type of Poaceae and Asteraceae. Mention alpha and beta taxonomy. 6+4