

Mid-West University
Examinations Management Office
Surkhet ,Nepal
Final Examinations 2079

Bachelor level/ B.Sc / 2nd Semester
Time: 3hrs

Full Marks : 60
Pass Marks : 30

Subject :Phanerogams (BOT421/321)

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group-A

Long answer questions (Attempt any Four)

[4x8=32]

1. Describe the family magnoliaceae in semi technical terms with floral formula, floral diagram and economic importance.
2. Describe Cronquist's (modern) system of classification.

OR

Describe the family lamiaceae in semi technical terms with floral formula, floral diagram and economic importance.

3. Discuss the reproduction of *Cycas* with necessary diagram.
4. Describe the T.S. of stem of *Pinus* with label diagram . Write any two economic importance of *Pinus*.

Group-B

Short answer questions(Attempt any Seven)

[7x3=21]

5. Describe morphology of *Gnetum*.
6. Describe morphology and anatomy of leaf let of *Cycas*.
7. Write merits and demerits of Bentham and Hooker system of classification.
8. Describe economic importance of family liliaceae.

OR

Describe flower of Orchidaceae.

9. Discuss cones of *Ephedra*.
10. Write explanatory notes on origin of gymnosperms.

11. Define inflorescence. Discuss APG system of classification.

Group-C

Very Short answer questions (Attempt Any seven)

[7x1=7]

12. Define columnar stem.
13. What is didynamous condition of stamen?
14. Write any two economically important plant belongs to family rosaceae .
15. Differentiate between apocarpous and syncarpous condition of carpel?
16. Define caryopsis.
17. What is artificial classification system?
18. What are the differences in between disc and ray floret?
19. Define ligule?
20. What are the differences between normal and coralloid root of *Cycas*?

THE END