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NEPWT—214—2024

FACULTY OF SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

BOTANY

SBOTE-501

(Classical Angiosperm Systematics)

(Tuesday, 17-12-2024)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—60

- N.B. :-** (i) Question No. 1 is compulsory.
(ii) Of the remaining, attempt any *three* questions.
(iii) Draw neat and labelled diagrams wherever necessary.

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| 1. Write short notes on : | 15 |
| (a) Principle of priority | 4 |
| (b) Floral formula and Floral Diagram of family Malvaceae | 4 |
| (c) Scope of plant taxonomy | 4 |
| (d) APG. | 3 |

P.T.O.

2. Describe in brief : 15
- (a) Describe in brief species concept. 8
- (b) Describe in brief probable ancestors of angiosperms. 7
3. Explain in brief : 15
- (a) Explain in brief the type method 8
- (b) Explain in brief pre-Darwanian classification 7
4. Describe in brief : 15
- (a) Describe in brief general characters of family–Meliaceae with its floral formula and floral diagram. 8
- (b) Describe in brief general characters of family–Cruciferae with its floral formula and floral diagram. 7
5. Explain in brief : 15
- (a) Explain in brief family–Gramineae with its economic importance 8
- (b) Explain in brief family–Dioscoraceae with its economic importance. 7
6. Write brief notes on : 15
- (a) Interrelationship of family–pandnaceae 4
- (b) Reproductive morphology of Papaveraceae 4
- (c) Armen L. Takhtajan’s classification 4
- (d) Taxonomic Ranks. 3