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WT—398—2024

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2024

BOTANY

Paper-XIX

(Angiosperms-IV-Phytochemistry and Pharmacognosy)

(Friday, 20-12-2024)

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

Time—3 Hours

Maximum Marks—75

N.B. :— (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Draw well labelled diagrams wherever necessary.

1. Describe in detail distribution, synthesis and biological activities of Alkaloids and Tanins. 15

Or

Describe in detail methods of extraction, purification and identification of secondary metabolites.

P.T.O.

2. Describe in detail phytochemistry in relation to plant taxonomy. 15

Or

Describe methods and techniques used in ethnobotany.

3. Describe in detail harvesting, drying and storage of crude drugs. 15

Or

Describe in detail morphological and therapeutic classification of crude drugs.

4. Describe morphology, anatomy, chemistry and uses of curcuma. 15

Or

Describe morphology, anatomy, chemistry and uses of cassia.

5. Write short notes on any *three* : 15

(a) Resins

(b) Applications of serological techniques in plant taxonomy

(c) Scope of pharmacognosy

(d) Anatomy of Withania Root.