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NY—398—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

BOTANY

Paper XIX

(Angiosperms–IV Phytoschemistry and Pharmacognosy)

(Friday, 15-12-2023)

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

Time—Three Hours

Maximum Marks—75

N.B. :— (i) Attempt *all* questions.

(ii) *All* questions carry equal marks.

(iii) Draw neat and well labelled diagrams wherever necessary.

1. Describe in detail methods of extraction, isolation, purification and identification of secondary metabolites in plants. 15

Or

Describe occurrence, synthesis and biological activity of Alkaloids. Add a note on its significance.

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2. Describe in detail methods and techniques used in Ethanobotany. 15

Or

Floristic diversity and medicinal plant research scenario in Maharashtra.

3. What is drug adulteration ? Describe in detail detection of drug adulterant by organoleptic and microscopic methods. 15

Or

Describe in detail morphological and therapeutic classification of crude drugs.

4. Describe nomenclature, morphology anatomy, chemistry, uses and adulterants of withania root drugs. 15

Or

Describe nomenclature, morphology anatomy, chemistry, uses and adulterants of Acacia bark drug.

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

- (a) Biological Activity of Tannins
- (b) Application of Serological data in plant systematics
- (c) Quality control of Herbal Drugs
- (d) Medicinal uses of clove.

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