

**RAN-2303080402040002**

M. Sc. (Sem.-II) Examination September - 2025
Botany - Pharmacognosy & Phytochemistry (Paper-2004)

Time: 3 Hours]**[Total Marks: 70****સૂચના : / Instructions**

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q-1. Discuss the history definition and scope of Pharmacognosy. **[16]**

Q-2. Answer any two. **[18]**

1. Describe the various methods of drying of herbal drugs.
2. Define the drug adulteration and describe the types of adulterants.
3. Discuss the Indian trade in medicinal and aromatic plants.

Q-3. Answer any two. **[18]**

1. Describe the common methods used for the extraction of volatile oils.
2. Describe the key points about the shikimic acid pathway. Discuss Enzymes involved in the shikimic acid pathway.
3. Discuss the various method of extraction of herbal drugs.

Q-4. Answer any two. **[18]**

1. Give the botanical names of three plants yielding drugs from whole plant and discuss their chemical constituents and uses.
2. Give a detailed account of *Aegle marmelos* and *Saraca asoca* as a plant of medicinal importance.
3. Give the botanical name, family, chemical constituents and uses of three medicinal plants yielding drugs from underground plant parts.