

Time: 3 Hrs

Marks: 70

- NB**
1. All questions are compulsory.
  2. Write all sub questions together
  3. Draw structure and diagrams where ever necessary

- Q.1** Answer the following **15**
- a. Write name and structure of any one monocyclic monoterpenoid volatile oil constituent.
  - b. Write name of preferred method of extraction of lemon grass volatile oil.
  - c. Give advantages of terpeneless volatile oil.
  - d. Mention two species of Brahmi.
  - e. Write chemical test for saponin glycosides.
  - f. Give name and structure of any one steroidal saponin constituent.
  - g. Write name and source of any one oleo resin containing drug.
  - h. Write the name of pungent and coloring principle of Capsicum.
  - i. Write biological source of any one herbal photosensitizer drug.
  - j. Mention biopotential of Rutin.
  - k. Write any one biological source of Lycopene.
  - l. Give traditional uses of Ashoka.
  - m. Mention source of any one herbal binding agent.
  - n. Write names of any two Ayurvedic Arista Preparation.
  - o. Write name and structure of any one flavonoid marker.
- Q.2**
- a. Give a complete pharmacognostic account of Fennel **OR** Dill. **4**
  - b. Write source, constituents and uses of Kalmegh and Quassia. **4**
  - c. Write a note on any one skin care drug of herbal origin. **3**
- Q.3**
- a. Discuss in detail about Dioscorea. **4**
  - b. Write source, constituents and traditional uses of Tulsi and Lehsun. **4**
  - c. Write a note on any one Herbal hair colorant. **3**
- Q.4**
- a. Write pharmacognostic account of Clove **4**
  - b. Explain detoxification process for ayurvedic formulations with any two examples. **4**
  - c. Explain herb drug interaction with two examples. **3**
- Q.5**
- a. Differentiate between cardenolide and bufadienolide. Write source, constituents and uses of squill. **4**
  - b. Write biological source, chemical constituents and uses of orange peel and soyabean. **4**
  - c. Write a note on Schedule T for ASU drugs. **3**
- Q.6**
- a. Give biological source, constituents, chemical test and uses of Colophony **OR** Guggul. **4**
  - b. Write a note on Asafoetida. **4**
  - c. Write biosynthetic pathway of any one monoterpenoid. **3**

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