

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 acyclic monoterpenoid volatile oil constituent.
 - b. Write name of preferred method of extraction of lemon grass volatile oil.
 - c. Enlist names of any two methods for preparation for terpene less volatile oil.
 - d. Write name and source of any one cardiac glycoside drug from Apocynaceae family.
 - e. Mention source of any one saponin glycoside drug possessing anti diabetic property.
 - f. Give name and structure of any one bufadienolide constituent.
 - g. Write name and source of any one pathological resin.
 - h. Give name of narcotic principle of Cannabis.
 - i. Mention biological sources of any two herbal photoprotective drugs.
 - j. Mention uses of orange peel flavonoids.
 - k. Write any one biological source of Crocin.
 - l. Give traditional uses of Tulsi.
 - m. Mention source of any one herbal non-nutritive sweetener.
 - n. Write names of any two Ayurvedic churna Preparation.
 - o. Write name and structure of any one phenyl propanoid marker.
- Q.2**
- a. Give a complete pharmacognostic account of Dill **OR** Coriander. **4**
 - b. What are carotenoids? Write source, constituent and structure of any two carotenoids. **4**
 - c. Write a note on any one herbal colouring agent. **3**
- Q.3**
- a. Discuss pharmacognostic details of *Digitalis purpurea*. **4**
 - b. Write source, constituents and traditional uses of Guggul and Lehsun. **4**
 - c. Write a note on any two herbal drugs used in perfumery. **3**
- Q.4**
- a. Give complete account of Cassia Cinnamon. **4**
 - b. Explain in detail detoxification process of ayurvedic formulations with 2 examples. **4**
 - c. Write a note on good manufacturing practises (GMP) for ASU drugs. **3**
- Q.5**
- a. Give source, constituents and uses of Ginseng and Fenugreek. **4**
 - b. Write a note on any two lignan containing drugs. **4**
 - c. Explain herb drug interaction with any two examples. **3**
- Q.6**
- a. Write a note on Shellac **OR** Asafoetida. **4**
 - b. What are Balsams? Describe any one balsamic resin containing drug. **4**
 - c. Write biosynthetic pathway of any one monoterpenoid. **3**
