

[Time: 3 Hours]

[Marks:70]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Write all sub-questions together.
 3. Draw structure and diagram wherever necessary.

- Q.1 Answer the following. 15
- a) Write name and structure of active constituent of oil of wintergreen.
 - b) Enlist methods of extraction of volatile oil.
 - c) Give biological source of any one aldehyde containing volatile oil drug.
 - d) Give biological source of a steroidal saponin containing drug used as a galactogogue.
 - e) Write chemical test for detection of deoxy sugar in cardiac glycosides.
 - f) Mention bio potential of Ginseng.
 - g) Give confirmatory test for Colophony.
 - h) Write source of any one oleo resin containing drug.
 - i) Give name and structure of any one iso-flavone derivative.
 - j) Write biological source of any one herbal photo sensitizer drug.
 - k) Write biological source of any one terpenoidal anti-cancer drug.
 - l) Mention traditional uses of Ashoka bark.
 - m) Give biological source of any one herbal disintegrant.
 - n) Mention any two examples of marketed ayurvedic churna formulation.
 - o) Write name and structure of any one phenyl propanoid marker.
- Q.2
- a) Describe complete pharmacognosy of Cassia cinnamon **OR** Fennel. 4
 - b) Write a note on Crocin and Zeaxanthin 4
 - c) Write a note on any two herbal colorants 3
- Q.3
- a) Describe in detail about Liquorice. 4
 - b) Give source, constituents and traditional uses of Shankpushpi and Kalmegh 4
 - c) Write short note on lemon peel **OR** peppermint as herbal flavoring agent. 3
- Q.4
- a) Give source, method of preparation, chemical constituents and uses of Eucalyptus oil. 4
 - b) Explain de-toxification process of Ayurvedic drugs with any two examples. 4
 - c) Write a short note on Cannabis **OR** Ginger. 3
- Q.5
- a) Describe complete pharmacognosy of *Digitalis purpurea*. 4
 - b) Give source, constituents and uses of Buckwheat and Orange peel. 4
 - c) Write a note on regulatory requirement for manufacturing of ASU drugs. 3
- Q.6
- a) Describe any two examples of Herb-Drug interactions. 4
 - b) Write source, chemical constituents and a confirmatory chemical test for Asafoetida and Guggul. 4
 - c) Give biosynthetic scheme of Coriandrol. 3
