

**Q.P. Code : 00127**

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| <b>[Time: 3 Hours ]</b>                                     | <b>[ Marks:70]</b>   |
| Please check whether you have got the right question paper. |  |
| <b>N.B:</b>   | <ol style="list-style-type: none"> <li><b>1. All questions are compulsory.</b></li> <li><b>2. Write all sub questions together.</b></li> <li><b>3. Draw structure and diagram wherever necessary.</b></li> </ol> |

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|-------------|---|-----------------|
| <b>Q.1.</b> | <b>Answer the following.</b>  | <b>15 Marks</b> |
|             | <ol style="list-style-type: none"> <li>a) Give sources of any two volatile oil containing drug used in perfumery.</li> <li>b) Write source of a drug containing ether volatile oil.</li> <li>c) Draw structure of any one phenolic volatile oil constituent.</li> <li>d) Give source of a bufadienolide containing drug.</li> <li>e) Give source of a drug containing Hecogenin.</li> <li>f) Mention source of a cardenolide drug belonging to Apocynaceae family.</li> <li>g) Write source of any one oleo gum resin containing drug.</li> <li>h) Give confirmatory chemical test for colophony.</li> <li>i) Write biopotential of Soy-isoflavones.</li> <li>j) Give source of Rutin containing drug.</li> <li>k) Draw the structure of Crocin.</li> <li>l) Write traditional uses of Tulsi.</li> <li>m) Write constituents of Aloe-Vera for skin care effect.</li> <li>n) Give any two examples of marketed ayurvedic taila.</li> <li>o) Write statement of schedule "Y" as per D &amp; C act.</li> </ol> |                 |
| <b>Q.2.</b> | a) Give pharmacognostical account of Clove <b>OR</b> Fennel.  | <b>4 Marks</b>  |
|             | b) Write source, constituents and uses of Quassia & Picrorrhiza.  | <b>4 Marks</b>  |
|             | c) Write a note on Tea with an emphasis on its cosmetic uses.   | <b>3 Marks</b>  |
| <b>Q.3.</b> | a) Define cardenolide? Explain in detail chemistry of <i>Digitalis purpurea</i> and <i>Digitalis lanata</i> .   | <b>4 Marks</b>  |
|             | b) Write source, constituents and uses of Artemisia & Guggul.   | <b>4 Marks</b>  |
|             | c) Write a note on two Herbal excipients used as binding agents.  | <b>3 Marks</b>  |
| <b>Q.4.</b> | a) Write sources of citral and its biosynthetic pathway.  | <b>4 Marks</b>  |
|             | b) Write a note on Asava & Arishta formulation, with examples of marketed preparation.  | <b>4 Marks</b>  |
|             | c) Enumerate the Quality Control and safety parameters for Herbal drugs as per WHO guidelines.  | <b>3 Marks</b>  |
| <b>Q.5.</b> | a) Give a complete account of Dioscorea.  | <b>4 Marks</b>  |
|             | b) Write source, constituents, chemical test and uses of Orange peel <b>OR</b> Liquorice.   | <b>4 Marks</b>  |
|             | c) Write a note on schedule T.  | <b>3 Marks</b>  |
| <b>Q.6.</b> | a) What are pathological resins? Give an account of Benzoin <b>OR</b> Asafoetida.   | <b>4 Marks</b>  |
|             | b) Write a note on various methods of extraction of volatile oil. Give benefits of terpeneless volatile oil.  | <b>4 Marks</b>  |
|             | c) Write a note on Cannabis.  | <b>3 Marks</b>  |