Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **12BT342** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PHYTOCHEMICALS AND HERBAL MEDICINE** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** |  | **Marks** |
| 1. | a. | Discuss the methods of collection and processing of crude drugs. |  | 18 |
| b. | Give few examples of alkaloid drugs. |  | 2 |
| **(OR)** | | | | |
| 2. | a. | Elaborate on the principle of treatment in Ayurvedic system of medicine. |  | 16 |
| b. | What are purgatives? List two crude drugs as purgatives. |  | 4 |
|  |  |  |  |  |
| 3. |  | Medicinal and aromatic plants are widely cultivated and utilized. Explain this scenario in Indian context. |  | 20 |
| **(OR)** | | | | |
| 4. | a. | Discuss the application of micropropagation in the growth of medicinal plants. |  | 10 |
| b. | Compare cell suspension culture with hairy root culture. |  | 10 |
|  |  |  |  |  |
| 5. | a. | Summarize the recent advances on anti-cancer drugs of plant origin. |  | 10 |
| b. | Appraise on the spectral studies for identification of secondary metabolites. |  | 10 |
| **(OR)** | | | | |
| 6. |  | Plant tissue culture is used for enhancing the seconday metabolites. Substantiate this statement with suitable examples. |  | 20 |
|  |  |  |  |  |
| 7. | a. | What are glycosides? Summarize the steps in the extraction and characterization of glycosides. |  | 10 |
| b. | Chromatographic methods can be routinely employed in the characterization of phytochemicals. Give reasons. |  | 10 |
| **(OR)** | | | | |
| 8. | a. | Give a detailed overview on the standard tools used for evaluation of herbal drugs. |  | 12 |
| b. | Outline the steps in the extraction and characterization of tannins. |  | 8 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Potentiate the applications of phytochemicals in industry and healthcare. |  | 12 |
| b. | Highlight the significance of nutraceuticals and their applications. |  | 8 |