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Total No. of Pages : 02

Total No. of Questions : 13

**B.Pharma (2017 Batch) (Sem.-5)**  
**PHARMACOGNOSY AND PHYTOCHEMISTRY II-THEORY**  
Subject Code : BP504T  
M.Code : 76789

Time : 3 Hrs.

Max. Marks : 75

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

**SECTION-A****1. Write briefly :**

- a) Write down biological source and uses of CINNAMON.
- b) Give structure and identification tests of QUININE.
- c) Write down principle of Ultrasonic Extraction.
- d) Give utilization of DIOSGENIN.
- e) Write down biological source and chemical constituents of TEA.
- f) Give biological source and commercial applications of LIQUORICE.
- g) Write applications of Gas Chromatography.
- h) Describe steps of biosynthesis of Mevalonic acid from acetyl-CoA.
- i) Describe method of identification of Rutin.
- j) Discuss method of estimation of Sennosides.

**SECTION-B**

2. Describe Shikimic acid pathway in the biosynthesis of various secondary metabolites.
3. Explain method of isolation, identification and analysis of CURCUMIN.
4. Describe method of industrial production, estimation and utilization of ARTEMISININ.

**SECTION-C**

5. Write down biological source, chemical constituents and therapeutic uses of DIOSCOREA and RAUWOLFIA.
6. Describe principle and applications of Supercritical Fluid Extraction.
7. Write down applications of Electrophoresis in isolation of crude drugs.
8. Describe the role of radioactive isotopes in investigation of biogenetic pathway.
9. What are IRIDOIDS? Give pharmacognostic account of GENTIAN.
10. Explain method of isolation and identification of CITRAL.
11. Write down biological source, chemical constituents and therapeutic uses of ASAFOETIDA and CATECHU.
12. Describe method of industrial production and uses of TAXOL.
13. Give a detailed pharmacognostic account on ALOES.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**