

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – II • EXAMINATION – WINTER • 2014

Subject Code: 2920205**Date: 26-12-2014****Subject Name: Advances in Pharmaceutical Sciences****Time: 10:30 am - 01:30 pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- | | | | |
|-------------|-----|---|-----------|
| Q.1 | (a) | Discuss application of various chromatographic techniques used for phytochemical screening. | 06 |
| | (b) | Write a note on pesticides. | 05 |
| | (c) | Discuss anti-lipidemic drugs from natural source. | 05 |
| Q.2 | (a) | Write a note on immunomodulatory drugs from natural source. | 06 |
| | (b) | Discuss flavanoids as anti-AIDS agents. | 05 |
| | (c) | Enumerate the herbs with their sources used as functional food. | 05 |
| Q.3 | (a) | Write novel drugs used as Anti-ulcer with one screening model. | 06 |
| | (b) | Enlist the antimalarials obtained from plant sources and explain any one in detail. | 05 |
| | (c) | Discuss controversial aspects of Brahmi, its importance as brain tonic drug. | 05 |
| Q.4 | (a) | Give tests for saponins. Write about hemolytic index and froth index. | 06 |
| | (b) | Write chemical tests for identification of tropane, xanthine and indole alkaloids. | 05 |
| | (c) | Give tests for identification of cardiac glycosides. | 05 |
| Q.5 | (a) | Write a note on anti-oxidant drugs from natural source. | 06 |
| | (b) | What are urolithetics? Explain it with suitable example. | 05 |
| | (c) | Describe methods for pharmacological screening of Hepatoprotective drugs. | 05 |
| Q. 6 | (a) | Describe methods for pharmacological screening of Anti-inflammatory drugs. | 06 |
| | (b) | Write note on Anticancer from natural sources. | 05 |
| | (c) | Write a note on <i>Silybum marianum</i> . | 05 |
| Q.7 | (a) | Write a note on Camptotheca alkaloids and their derivatives. | 06 |
| | (b) | Write a note on bryostatins and flavoparidol. | 05 |
| | (c) | Describe essential structural features of cardenolides for cardio tonic activity. | 05 |
