

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

Subject Code: 2920205**Date: 31-05-2014****Subject Name: Advances in Pharmaceutical Science****Time: 02:30 pm - 05:30 pm****Total Marks: 80****Instructions:**

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

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| Q.1 | (a) | What is phytochemical screening ? Briefly describe tests for phytosterols and alkaloids. | 06 |
| | (b) | Discuss extraction, isolation and purification of anthraquinone glycosides. | 05 |
| | (c) | Explain principle and significance of Supercritical Fluid Extraction. | 05 |
| Q.2 | (a) | What are pesticides ? Explain mode of action naturally occurring pesticides. | 06 |
| | (b) | Enumerate ideal properties of natural pesticides. | 05 |
| | (c) | Discuss in detail pesticides obtained from floral parts. | 05 |
| Q.3 | (a) | Explain chromatography. Discuss TLC technique in brief. | 06 |
| | (b) | Prepare a monograph on any one naturally occurring anti-lipidemic drug. | 05 |
| | (c) | Write controversial aspects of brambi. Discuss its chemical constituents and pharmacological action . | 05 |
| Q.4 | (a) | Write a note on naturally occurring anti-HIV drugs. | 06 |
| | (b) | Write exhaustive information <i>Silybum marianum</i> . | 05 |
| | (c) | Describe a Chinese anti-malarial drug of natural origin. | 05 |
| Q.5 | (a) | Define nutraceuticals. Add a note on dietary fiber. | 06 |
| | (b) | Write detailed information on Poly Unsaturated Fatty Acids | 05 |
| | (c) | Enumerate naturally occurring anti-oxidants. Brief their sources and pharmacological actions | 05 |
| Q. 6 | (a) | Enumerate models for evaluating anti-inflammatory action of drug. Give brief about Rat paw edema model. | 06 |
| | (b) | Write a note on plant immunomodulators. | 05 |
| | (c) | Give exhaustive information on clinically used five antidiabetic herbal drugs. | 05 |
| Q.7 | (a) | Discuss mode action of taxol and its precursors | 06 |
| | (b) | Write significance note on cardio tonic drugs | 05 |
| | (c) | Explain biological tests for detection of saponins, Add a note on Hemolytic and froth indexes. | 05 |
