

GUJARAT TECHNOLOGICAL UNIVERSITY**M.PHARM - SEMESTER-II • EXAMINATION – SUMMER-2016****Subject Code:2920205****Date: 21/05/2016****Subject Name: ADVANCES IN PHARMACEUTICAL SCIENCES****Time:10:30 AM To 1:30 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) | Write a note on brain tonics of plant source. | 06 |
| | (b) | Discuss pesticides of plant origin. | 05 |
| | (c) | Write a detailed note on digitalis and its substitutes. | 05 |
| Q.2 | (a) | Write in detail about anti-diabetic drugs from natural source. | 06 |
| | (b) | Discuss anti-lipidemic drugs from natural source. | 05 |
| | (c) | Discuss flavanoids as anti-AIDS agents. | 05 |
| Q.3 | (a) | Write in detail about mechanism of action of taxol in prevention of cancer and essential structural features for the anti-cancer activity | 06 |
| | (b) | Write novel drugs used as diuretic with one screening model. | 05 |
| | (c) | What are urolithetics? Explain it with suitable example. | 05 |
| Q.4 | (a) | Write a note on role of chromatographic techniques in phytochemical screening of herbal drugs. | 06 |
| | (b) | Describe methods for pharmacological screening of Anti-ulcer drugs. | 05 |
| | (c) | Write chemical tests for the followings
(1) Alkaloids
(2) tannins | 05 |
| Q.5 | (a) | Mention the naturally occurring anti-oxidants with their sources and mechanism of actions. | 06 |
| | (b) | Give tests for saponins. Write about hemolytic index and froth index. | 05 |
| | (c) | Define nutraceuticals. Classify it with suitable examples. | 05 |
| Q. 6 | (a) | Describe methods for pharmacological screening of Antiinflammatory drugs. | 06 |
| | (b) | Discuss the role of probiotics and prebiotices of natural source as a nutraceuticals. | 05 |
| | (c) | Discuss various PUFA of natural origin, enlist their sources and write about their importance. | 05 |
| Q.7 | (a) | Enlist the antimalarials obtained from plant sources and explain Cinchona as an anti-malarial drug in detail. | 06 |
| | (b) | Write a note on any one hepatoprotective drug apart from <i>Silybum marianum</i> . | 05 |
| | (c) | Write a note on natural immunomodulators. | 05 |
