

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.PHARM- SEM-II-EXAMINATION – JULY 2012

Subject code: 2920205

Date: 09/07/2012

Subject Name: Advances in Pharmaceutical Science

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.

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| Q.1 | (a) | Enlist various brain disorders and give the detail of plants and phytoconstituents for brain tonic activity. | 06 |
| | (b) | Write short note on diuretic plants. | 05 |
| | (c) | Give the detail of phytoconstituents as hepatoprotective. | 05 |
| Q.2 | (a) | Explain the mechanism of action of following drugs as an anticancer.
1. Vincristine
2. Camptothecin
3. Etoposide | 06 |
| | (b) | Define and classify nutraceuticals with suitable examples. | 05 |
| | (c) | Write brief note on polyunsaturated fatty acid as nutraceuticals. | 05 |
| Q.3 | (a) | Enlist the various plants for antidiabetic activity and give its biological source and chemical constituents. | 06 |
| | (b) | Explain the different models for screening of antioxidant activity. | 05 |
| | (c) | Classify the cardiac glycoside with suitable examples and explain the mechanism of action of cardiac glycoside. | 05 |
| Q.4 | (a) | Explain the differentiating chemical tests between following phytoconstituent.
1. Cardenolide and bufadienolide
2. Steroidal saponin and triterpenoid saponin
3. O- glycoside and C- glycoside | 06 |
| | (b) | Write short note on Guggul | 05 |
| | (c) | Explain the importance of thin layer chromatography in plant drug analysis. | 05 |
| Q.5 | (a) | Write brief note on Curcumin and Digoxin | 06 |
| | (b) | Define pesticide and explain the methods for pest control. | 05 |
| | (c) | Give the detail of secondary metabolites of plant for pesticide. | 05 |
| Q.6 | (a) | Explain immunomodulating activity of Galo and Ashwagandha. | 06 |
| | (b) | Discuss various phytoconstituents used for HIV infection. | 05 |
| | (c) | Explain the importance of Soya product for the health benefit. | 05 |
| Q.7 | (a) | Explain phytochemical screening of Alkaloid, Flavonoid and Tannin | 06 |
| | (b) | Explain the mechanism of action of Artemisin for anti-malarial activity. | 05 |
| | (c) | Enlist the different models for evaluation of antiulcer and anti-inflammatory activity. | 05 |
