| Seat No.: | Enrolment No. |
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Subject Code: 2920105

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. - SEMESTER - II • EXAMINATION - SUMMER • 2014

Date: 29-05-2014

| - | e: 02 | Name: Advanced Analytical Pharmacognosy 2:30 pm - 05:30 pm Total Marks: 80 | |
|------|-------------------|---|----------------|
| | | Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. | |
| Q.1 | (a) (b) | Define Ayurveda and Discuss the basic principle of Ayurveda. Explain method of preparation and standardization parameters of medicated wine. | 06 05 |
| | (c) | Enlist the different alternative system of medicine and discuss the difference between Ayurvedic system of medicine and Allopathic medicine. | 05 |
| Q.2 | (a) (b) (c) | Write a note on adverse reactions observed with the use of herbal drugs. What is toxicology? Write on toxicity testing in herbal drugs. Describe Mutagenicity and Teratogenicity. | 06 05 05 |
| Q.3 | (a) (b) (c) | Define stability study. Give ICH guidelines for stability testing. Discuss the problems related to stability of herbal drugs. Write a note on obtaining license for manufacturing Ayurvedic and other drugs of traditional origin. | 06 05 05 |
| Q.4 | (a) (b) (c) | Discuss Ayurvedic Bhasma as most ancient application of nanomedicine. Discuss importance of heavy metal analysis and pesticide residue in standardization of herbal formulation. Discuss the method of preparation and standardization parameters for Ayurvedic preparation Ghirta and Taila. | 06 05 05 |
| Q.5 | (a) (b) (c) | Classify marine drugs and write brief account on marine toxins. Discuss anticancer drugs obtained from Marine source. Describe marine sources with possible mechanism of action for anti-inflammatory and antimicrobial activity. | 06 05 05 |
| Q. 6 | (a) (b) | Explain FDA protocol for standardization of herbal medicines. Discuss importance of ash value, extractive value and moisture content in herbal drug analysis. | 06 05 |
| | (c) | Explain the different parameters for analysis of fixed oil and volatile oil. | 05 |
| Q.7 | (a) | Discuss importance of fingerprinting and marker compound analysis in standardization of herbal medicines. | 06 |
| | (b) | Enumerate the standardization parameters for herbal drugs as per WHO guide line and discuss analysis of aflatoxin in herbal drugs. | |
| | (c) | Write on safety and efficacy of traditional preparations. | 05 |
