| Enrolment No. | |
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| Lindinchi 110. | |

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER-V • EXAMINATION - SUMMER 2017

| | • | ect code: 250006 Date: 16/06/ | /2017 |
|------|-----|---|--------------|
| | • | ect Name: Pharmacognosy-IV | |
| | _ | : 10:30 AM to 01:30 PM Total Mark | ks: 80 |
| | | Attempt any five questions | |
| | | Attempt any five questions. Make suitable assumptions wherever necessary. | |
| | | Figures to the right indicate full marks. | |
| Q.1 | (a) | Illustrate the biogenetic pathway of the biogenesis of unsaturated fatty acids in plants and animals. | 06 |
| | (b) | Write the biogenesis of any alkaloid synthesized from ornithine. | 05 |
| | (c) | Write a brief note on tracer techniques used for biogenetic studies in plants. | 05 |
| Q.2 | (a) | · · · · · · · · · · · · · · · · · · · | 06 |
| | (b) | | 05 |
| | (c) | Differentiate between any two varieties of ephedra species. | 05 |
| Q.3 | | | 06 |
| | (b) | | 05 |
| | (c) | Write a note on Indian ginseng. | 05 |
| Q.4 | (a) | Give the biological source, chemical constituents, chemical tests and uses of a seed containing indole alkaloids. | 06 |
| | (b) | Write a note on adulterants of the drug mentioned in Q.4 (a). | 05 |
| | (c) | Give examples of therapeutically active natural products which show cis-, trans and cis-trans isomerism. | - 05 |
| Q.5 | (a) | | 06 |
| | (b) | Write a note on cultivation and collection of aconite. | 05 |
| | (c) | Draw schematic T.S. and powder microscopy of vasaka. | 05 |
| Q. 6 | (a) | Write chemical test for identification of: i. Ergotamine ii. Caffeine iii. Quinine | 06 |
| | (b) | | 05 |
| | (c) | | 05 |
| Q. 7 | (a) | Differentiate between two varieties of ipecacuanha. | 06 |
| - | (b) | • | 05 |
| | (c) | | 05 |
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