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| Seat N | No.: | Enrolment No. | |
|---|----------------------------|---|----------------|
| GUJARAT TECHNOLOGICAL UNIVERSITY B.Ph. – SEMESTER V – EXAMINATION – WINTER -2020 | | | |
| Subject Name: Pharmacognosy and Phytochemistry - II | | Name: Pharmacognosy and Phytochemistry - II:30AM TO 12:30PMTotal Marks: 54 | |
| 1. 2. 3. 4. | Atte Q.7 Mal Figu | empt any THREE questions from Q-1 to Q-6. is compulsory to attempt. ke suitable assumptions wherever necessary. ures to the right indicate full marks. | 0.6 |
| Q.1 | (a) (b) (c) | Write a detailed note on use of types of radioisotopes and their characteristics in biogenetic studies.Write the biogenetic pathway of amino acids.Write the sources and types of alkaloids present in rauwolfia. | 06 05 05 |
| Q.2 | (a) (b) (c) | Write a detailed note on methods used to apply/feed radioactive substances to plants during biogenetic studies. Write the method of isolation and analysis of menthol. Write industrial production and utilization of caffeine. | 06 05 05 |
| Q.3 | (a) (b) (c) | Explain the terms extraction and isolation with the help of example. Enumerate methods of extraction. Write the application of latest spectroscopic techniques in Phytochemistry. Write a note on application of HPTLC-MS technique in identification of phytoconstituents. | 06 05 05 |
| Q.4 | (a) (b) (c) | Write a note on glycosides resent in dioscorea. Explain with the help of reactions the commercial application of disogenin.Write a note on general introduction of glycosides. Differentiate between types of cardiac glycosides.Write chemistry, sources and uses of guggul. | 06 05 05 |
| Q.5 | (a) (b) (c) | Write isolation, identification and analysis of artemisin. Write isolation, identification and analysis of glycyrhhetinic acid Write isolation, identification and analysis of quinine. | 06 05 05 |
| Q. 6 | (a) (b) (c) | Write the industrial production and utilization of vincristine and vinblastine. Write estimation and utilization of sennosides. Write industrial production method and estimation method of forskolin. | 06 05 05 |
| Q.7 | (a) | Write the chemistry, composition and commercial application of alkaloids present in belladonna. OR | 06 |
| | (a) | Write a note on chemistry of alkaloids present in opium. OR | 06 |
| | (a) | Write a note on chemical classification of flavonoids. Write the commercial application of rutin. | 06 |
