GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - VI • EXAMINATION - WINTER • 2015

| Subject Code: 2260004 Subject Name: Pharmaceutical Chemistry VIII (Medicinal Chemistry-II) Time: 02:30 pm - 05:30 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.2 | (a)(b)(c) | What are xenobiotics? How drugs metabolized in Phase-I metabolism? Explained the same with examples. What is Phase-II metabolism? How glucoronide conjugation helps to metabolized drug molecules. Explain with examples. Discuss factor affecting drug metabolism in detailed. | 06 05 05 |
| Q.3 | (a) (b) (c) | Discuss in detailed SAR of Tricyclic antidepressant. Write short notes on analeptic agents. Write synthesis of any two: a) Phenytoin b) Imipramine c) Halothane | 06 05 05 |
| Q.4 | (a) (b) (c) | Define hypnotic and sedative? Write Detailed SAR of benzodiazepines. Write SAR of local anesthetic agents with respect to benzoic acid and aniline derivatives. Write short notes on general anesthetic agents. | 06 05 05 |
| Q.5 | (a) (b) (c) | Define antipsychotic agents. Write detailed SAR of phenothiazines. Write synthesis of any two: a) Phenobarbitone b) Lignocaine c) Chlorpromazine Write SAR of Barbiturates. | 06 05 |
| Q. 6 | (a) (b) (c) | Write short note on Antiparkinson's agents in detailed. What is DMARDS? Write detailed short notes on it. Write Mechanism of action, uses and side effects of Selective Serotonin Reuptake Inhibitors. | 06 05 05 |
| Q.7 | (a) (b) | Write Mechanism of action, uses and side effect of NSAIDs. Write synthesis of any two: a) Ibuprofen b) Allopurinol c) Diclofenac | 06 05 |
| | (c) | What are cognition enhancers? Write short notes on drug used in treatment of Alzheimer's disease. | 05 |
