| Seat No.: | Enrolment No. |
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GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER • 2015

| Subject Code: 240005 | | de: 240005 Date: 11-01-2 | Date: 11-01-2016 | |
|----------------------|-------------------|---|------------------|--|
| Time | | me: Pharmacology-I) pm - 05:30 pm | : 80 | |
| | 1. Att 2. Ma | tempt any five questions. Ake suitable assumptions wherever necessary. Sources to the right indicate full marks. | | |
| Q.1 | (a) (b) | Write a note on G-protein coupled receptors. Discuss the advantages and disadvantages of intravenous route of drug administration. | 06 05 | |
| | (c) | Write a short note on phases of clinical trials. | 05 | |
| Q.2 | (a) (b) (c) | Write a note on sources of drugs. Differentiate competitive and non-competitive antagonism. Differentiate sympathetic and parasympathetic nervous system. | 06 05 05 | |
| Q.3 | (a) (b) (c) | Describe the mechanism of action of local anesthetics. Differentiate Autonomic and Somatic nervous system. Write a short note on Structure activity relationship. | 06 05 05 | |
| Q.4 | (a) | Define biotransformation. Describe enzyme induction and enzyme inhibition with examples. | 06 | |
| | (b) (c) | Write a short note on pharmacokinetic drug interactions. Write a short note on acute toxicity studies. | 05 05 | |
| Q.5 | (a) (b) (c) | Write a note on Adverse drug reactions. Classify beta blockers. Write a short note on Atenolol. Describe methods for prolonging duration of action of drug. | 06 05 05 | |
| Q. 6 | (a) (b) | Describe synthesis, release and metabolism of Adrenaline. Define receptors, classify cholinergic receptors, describe their distribution and give examples of their agonists and antagonists. | 06 | |
| Q.7 | (c) (a) (b) (c) | Write a short note on triple response of histamine. Classify autocoids and discuss the pharmacology of prostaglandins. Classify neuromuscular blocking agents. Write a note on D-tubocuarine. Discuss the factors affecting absorption of drug from gut. | 05 06 05 | |
