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GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm. - SEMESTER-IV • EXAMINATION – SUMMER - 2018

Date: 21/05/2018 Subject Code: 240005 Subject Name: Pharmacology-I Time: 10:30 AM TO 01:30 PM **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Classify various routes of drug administration and write advantages and **Q.1** 06 (a) disadvantages of parenteral route. **(b)** Describe steps involving in neurohumoral transmission. 05 Define following term: 05 (c) i) Pharmacodynamic ii) Pharmacogenomics iii) Pharmacokinetics iv) Drug tolerance v) Teratogenicity **Q.2** Discuss absorption process and factors affecting to drug absorption. 06 (a) What is Dale's vasomotor reversal of adrenaline and classify sympathomimetic **(b)** 05 agents. Explain competitive and non-competitive antagonism with suitable example. 05 (c) **Q.3** Write a short note on: 06 (a) (1) Method prolonging the duration of action of drug (2) Plasma protein binding. Enlist various types of receptor and describe GPCR in detail. 05 **(b)** Classify cholinergic drugs and write down pharmacological action of 05 (c) acetylcholine. 0.4 Write a short note on: 06 (a) 1) Structure activity relationship(SAR) 2) First pass metabolism 3) Bioavailability Enlist various types of drug interactions. Write in detail about pharmacokinetic **(b)** 05 drug interaction. Define autocoids. Write short note on H₁ receptor blocker. (c) 05 0.5 (a) Write down pharmacological action of histamine. 06 Write a note on prostaglandins. **(b)** 05 Write phases of clinical trial. (c) 05 **O.** 6 (a) Explain organophosphorous poisoning and its treatment. 06 Write a note on pentagastrin and angiotensin. **(b)** 05 Write a note on local anaesthetics. (c) 05 **Q.7** (a) Write a note on drug nomenclature and Define drug and explain different 06 **(b)** Write a note on neuro muscular blocking agents. 05 Define following terms with example 05 i) Potentiation ii) Addition iii) Synergism iv) Agonist v) Partial antagonist