

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – SUMMER - 2018

Subject Code:828804**Date: 04/05/2018****Subject Name: Pharmacology-I****Time: 10:30AM TO 01:30PM****Total Marks: 70****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.1 | (a) Detail various routes of drug administration stating their advantages and disadvantages. | 06 |
| | (b) Give mechanism of action and pharmacological actions of insulin. | 04 |
| | (c) Give therapeutic uses of a)Amantidine b)Lignocaine | 04 |
| Q.2 | (a) State different types of receptors. Explain signaling transduction in G protein coupled receptors. | 06 |
| | (b) Define anesthesia. Give stages of anesthesia and characteristics of an ideal anesthetic agent. | 04 |
| | (c) Explain the terms :Bioavailability of a drug; Therapeutic index of a drug | 04 |
| Q.3 | (a) Classify anti-hypertensive agents. Discuss the role of renin angiotensin system in regulating hypertension. | 06 |
| | (b) Classify anti-arrhythmic drugs. Give pharmacology of amiodarone | 04 |
| | (c) Write a short note on Drug interactions. | 04 |
| Q.4 | (a) Give pharmacological actions and therapeutic uses of alcohol. | 06 |
| | (b) Give pharmacological actions of histamine .Write therapeutic uses of anti-histaminic agents. | 04 |
| | (c) Explain the terms : Acute toxicity; Enzyme induction | 04 |
| Q.5 | (a) Give mechanism of action and pharmacological actions of thyroid hormones. | 06 |
| | (b) Discuss absorption of a drug. | 04 |
| | (c) Give therapeutic uses of :a) Clozapine b)Propranolol | 04 |
| Q. 6 | (a) Classify parasympatholytics. Give therapeutic uses of anti-cholinergic agents. | 06 |
| | (b) Compare and contrast narcotic and non-narcotic analgesics. | 04 |
| | (c) Give mechanism of action and therapeutic uses of Diazepam. | 04 |
| Q.7 | (a) Define epilepsy. Enumerate first and second drug of choice for different types of epilepsy | 06 |
| | (b) Give mechanism of action, therapeutic uses and side effects of Digitalis | 04 |
| | (c) Explain the terms: Volume of distribution ; Half-life of a drug | 04 |