

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY

B.PHARM FOURTH SEMESTER

SECOND INTERNAL THEORY EXAMINATION: 2018-19

Subject Name: Medicinal Chemistry-I

Subject Code: BP402T

Time: 10:00 am to 11:15 am

Date: 15-03-2019

Total Marks: 30

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions:

- | | | |
|------|--|----|
| (1) | Which is not Benzodiazepine | 01 |
| | (a) Alprazolam (b) Lorazepam (C) Zolpidem (d) Midazolam | |
| (2) | Which Opioid receptor is responsible for dependence? | 01 |
| | (a) Mu (b) Kappa (c) Delta (d) Sigma | |
| (3) | Which is not the side effect of COX-I inhibitors? | 01 |
| | (a) Gastric Ulcer (b) Bleeding (c) Headache (d) Acute renal failure | |
| (4) | Glutethamide comes under which class? | 01 |
| | (a) Amides and Imides (b) Aldehyde (C) Alcohol (d) Barbiturates | |
| (5) | Which is Short acting Barbiturate? | 01 |
| | (a) Pentobarbital (b) Phenobarbital (C) Thiopental (d) Amobarbital | |
| (6) | The Beta-I Receptors presents in | 01 |
| | (a) Heart (b) Lungs (c) Adrenal Glands (d) Adipose tissue | |
| (7) | Tolazoline is synthesized starting from? | 01 |
| | (a) Phenyl acetonitrile (b) Benzyl cyanide (C) 4-Hydroxy propiophenone (d) Mesitylene derivative | |
| (8) | Phenoxybenzamine Inhibits the uptake of | 01 |
| | (a) Histamine (b) Catecholamine (c) Prazosine (d) Non of them | |
| (9) | Phentolamine belongs to the class of | 01 |
| | (a) Ergot alkaloids (b) Imidazoline (c) Pyridyl quinazolinone (d) Piprazinyl Quinoxaline | |
| (10) | Pindolol is _____ | 01 |
| | (a) Alpha-1 Antagonist (b) Beta-1 Antagonist (c) Beta-1 partial Antagonist (d) Alpha-1 partial antagonist | |

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Q.2 Long Answers (Any One)

- | | | |
|-----|--|----|
| (1) | Write down the SAR, Mechanism of action along with Three Structural examples of Benzodiazepines. | 10 |
| (2) | What is drug metabolism? Write down Phase-I Reaction with Examples. | 10 |

Q.3

Short Answers: (Any Two)

- | | | |
|-----|--|----|
| (1) | Definition of Sedative and Hypnotics? Write the SAR of Barbiturates. | 05 |
| (2) | Differentiate Barbiturates and Benzodiazepine, Any 5 Points. | 05 |
| (3) | Give the Synthesis of Following Drugs | 05 |
| | 1. Salbutamol. | |
| | 2. Propranolol. | |
