DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2022

| | | Date: 09/02/2023 | |
|--|--|-------------------------|---------------------|
| Cours | e : B. Pharmacy | Sem: IV | |
| Subje | t Name : Medicinal Chemistry-I | Subject Code: RP402T | |
| Max N | Iarks : 75 | Duration : | 3 Hr. |
| Instructions: | | | |
| 1. All questions are compulsory 2. Draw diagrams / figures wherever necessary | | | |
| 3. Figures to right indicate full marks | | | |
| Q. 1. | One or Two answer sentence (Answer all the qu | estions) | (10 x 2) = 20 |
| i) | Describe in detail about Bioisosterism. | | |
| ii) | Write down the synthesis of Tolazoline. | | |
| iii) Explain β adrenoreceptors. | | | |
| iv) | Draw the structure and IUPAC name of Tacarine hyd | drochloride | |
| v) | How does benzodiazepine affect the action of GABA | Α? | |
| vi) | Write MOA of major tranquillizer | | |
| vii | Why phenytoin does not give sedation through rest d | lrugs of hydantoin | |
| x /11 | class shows sedation Write a note on Opioid antagonist | | |
| • 11. •) | Write a MOA of Agnizin | | |
| IX) | | | |
| X) | What is partition coefficient? | | |
| Q. 2. | Long Answers (Answer 2 out of 3) | | (2 x 10) = 20 |
| | | | |
| i) | Discuss the SAR of Sympathomimetic agent and wri Biosynthesis & Catabolism of Catecholamine. | ite a note on | |
| ii) | Classify narcotics analgesic. Add a note on SAR and citrate and Methadone hydrochloride | l MOA Fentanyl | |
| | | | |
| iii) | Enlist various physicochemical properties affecting t activity of drug Add a note on Phase-I reaction | he biological | |
| | | | |
| 03 | Short Answers (Answer 7 out of 9) | | $(7 \times 5) - 35$ |
| Q. 3. | Short miswers (miswer / out of)) | | (TXS) = SS |
| i) | What is mean by drug metabolism? Describe the fact metabolism. | tors affecting drug | |
| ii) | Write a note on biosynthesis and release of acetylcho | oline. | |

iii) Outline the synthesis of Salbutamol and Ibuprofen.

- iv) Classify sedative and hypnotics. Write the SAR and MOA of Barbiturates.
- **v**) Write a note on cholinergic blocking agent. And write the SAR of Ipratropium bromide.
- vi) Classify antipsychotic drug. Add a note on Chlorpromazine hydrochloride.
- vii) Define epilepsy and describe general mechanism of action of anticonvulsant drug.
- viii Write a note on adrenergic receptor. Classify sympathomimetic drugs with e.g.
- ix) Describe the SAR of morphine analogues. Add a note on antiinflammatory agent.

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