Enrollment No: _____ PARUL UNIVERSITY FACULTY OF PHARMACY B. Pharm. Summer 2018 - 19 Examination

| Semester: 4 Subject Code: BP402T Subject Name: Medicinal Chemistry I - Theory | Date: 03/04/2019 Time: 02:00 pm to 05:00 pm Total Marks: 75 |
|---|---|
| Instructions: | |
| 1. Figures to the right indicate maximum marks. | |
| 2. Make suitable assumptions wherever necessary. | |
| Q.1 Multiple Choice Questions (MCQs) (1 Mark Each | h) (20) |
| 1. Extra –pyramidal effects are associated with the fol | lowing drug: |
| a)Haloperidol | b)Chlorprothixene |
| c)Loxapine | d)Oxypertine |
| 2. Drug which inhibit intestinal motility and act as an | antidiarrhoeal agent: |
| a)Pentazocine | b)Acetaminophen |
| c)Diphenoxylate | d)Naproxen |
| 3. All of the following are Hydantoins derivatives E X | KCEPT: |
| a)Phenytoin | b)Primidone |
| c)Mephenytoin | d)Ethotoin |
| 4. Phenytoin is the drug of choice for: | |
| a)Grand mal seizures | b)Petit mal seizures |
| c)Partial seizures | d)None of the above |
| 5. One of the following is not a triazolobenzodiazepi | ne derivative : |
| a) Alprazolam | b) Triazolam |
| c) Midazolam | d) Estazolam |
| 6. The ratio of conc.of drug in oil phase and in water | phase is known as : |
| a) Ionization | b) Partition coefficient |
| c) Solublity | d) Iso-sterism |
| 7. In Benzodiazepines structure the following position | as should not be substituted for activity: |
| a)4,6,8 | b)5,8,9 |
| c)6,8,9 | d)7,8,9 |
| 8. RH+X+NADPH+H ⁺ ROH+Y+NADP ⁺ , find 2 | X and Y in this reaction: |
| a) H_20, O_2 | b) OH,H ₂ O |
| c) $O_2, H_2 O$ | d) H ₂ O,OH |
| 9. Butyrophenone derivative of Antipsychotic drug: | |
| a)Loxapine | b)Pimozide |
| c)Haloperidol | d)Thioridazine |
| 10. Dissociative anesthetics is: | |
| a)Ketamine | b)Methohexiatal |
| c)Halothane | d)Enflurane |
| 11. Carbamate ester of choline is: | |
| a) Acetyl choline | b) Bethacholine |
| c) Carbachol | d) Methacholine |
| 12. All of the following are the example of Narcotic an | tagonists EXCEPT: |
| a)Nalorphile | d)Pertazorine |
| 12 A potul shaling is biosynthesized from | d)Pentazocine |
| a) L cysteine | b) L corino |
| a) L-cysicille | d) L cholic acid |
| 14. Starting material for general method of propretion f | u, L-chone actu |
| a) Dimethyl malonate | h) Diethyl malonate |
| c) Diethyl chloride | d) Dimethyl chloride |
| | a) Dimetry i emoride |

| 15. | Acetyl salicylic acid is: | | | |
|-----|---|--|------|--|
| | a)Phenacetin | b)Aspirin | | |
| | c)Paracetamol | d)Ketoprofen | | |
| 16. | Antidote for atropine poisoning: | | | |
| | a)Physostigmine | b)Cyclopentolate | | |
| | c)Dicyclomine | d)Glycopyrrolate | | |
| 17. | 7. Following are the examples of Phenyl Piperidines derivatives EXCEPT : | | | |
| | a) Fentanyl | b) Diphenoxylate | | |
| | c) Isomethadone | d) Loperaamide | | |
| 18. | 8. 4-chloro aniline is the starting material for synthesis of : | | | |
| | a) Diazepam | b) Phenytoin | | |
| | c) Alprazolam | d) None of the above | | |
| 19. | 19. UDPGA is the active intermediate in the following reaction: | | | |
| | a) Sulphation | b)Glucuronidation | | |
| | c) Acetylation | d) Methylation | | |
| 20. | 20. Which one of the following drug belong to short acting barbiturates? | | | |
| | a)Pentobarbital | b)Talbutal | | |
| | c)Amobarbital | d)Secobarbital | | |
| Q.2 | Long Answers (any 2 out of 3) (10 Mark Each) | | (20) | |
| 1. | Enumerate the physiochemical properties affecting biolog | gical activity.Explain ionization & bioisosterism. | | |
| 2. | Classify Sympathomimetic agents.Write down the synthe | sis & use of Salbutamol. | | |
| 3. | Classify Sedative & hypnotics.Write a note on SAR and | mechanism of action of Barbiturates. | | |
| Q.3 | Short Answers (any 7 out of 9) (5 Mark Each) | | (35) | |
| 1. | Write down the classification of Adrenergic antagonists. | | | |
| 2. | Explain the Role of cytochrome p-450 in oxidative react | ion. | | |
| 3. | Write down the synthesis & use of following drugs(Any | two): | | |
| | a)Dicyclomine b)Ethosuximide c)Propranolol | | | |
| 4. | Write down the moa & SAR of phenothiazines. | | | |
| 5. | Classify Anti-cholinergic agents with examples. | | | |
| 6. | Classify Narcotic drugs & antagonists. | | | |
| 7. | Give the synthesis & use of Ketamine. | | | |
| 8. | Write down the synthesis & mechanism of action of Pher | nytoin. | | |
| 9. | Classify Anti-inflammatory agents with their mechanism | of action. | | |