

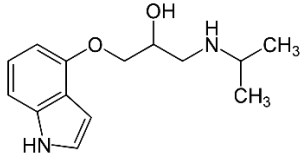
C\_801\_T (Sem-VIII) CBSGS

Pharmaceutical chemistry-IV

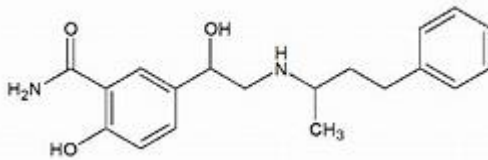
Sample MCQs

1. Which of the following is non-selective beta blocker?

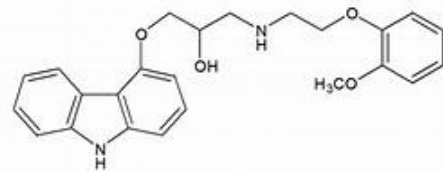
a.



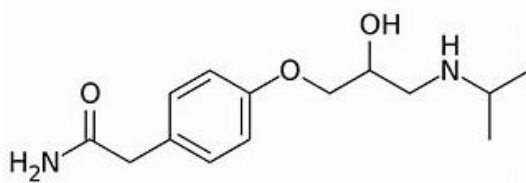
b.



c.

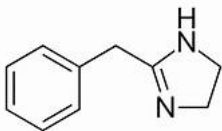


d.

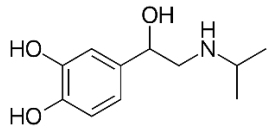


2. Identify alpha-1 adrenergic agonist

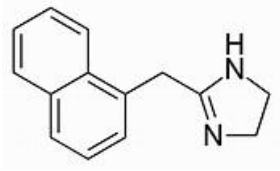
a.



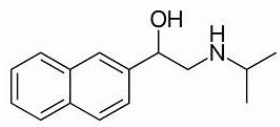
b.



c.



d.



3. Amantadine is used in treatment of

- a. Antidepressant
- b. Antiparkinsons
- c. Antipsychotic
- d. Anxiolytic

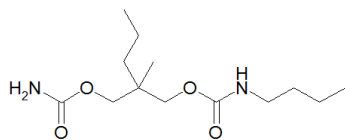
4. Identify structure of following drug

10-[2-(1-methylpiperidin-2-yl) ethyl]-2-methylsulfonylphenothiazine

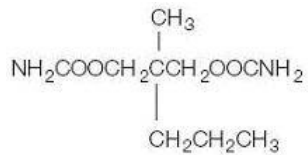
- a. Clozapine
- b. Thioridazine
- c. Pimozide
- d. Loxapine

5. Identify structure of active metabolite of Tybamate

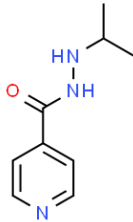
a.



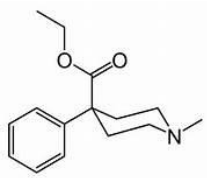
b.



c.



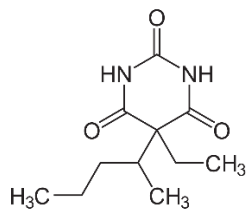
d.



6. which of the following is non-selective irreversible inhibitor of Mono Amino Oxidase (MAO)

- a. Nortryptiline
- b. Imipramine
- c. Iproniazid
- d. Fluoxetine

7. Identify name of given structure



- a. Butabarbital
- b. Pentobarbital
- c. Amobarbital
- d. Secobarbital

8. To alleviate the positive symptoms associated with schizophrenia, drug should interact at which receptor?

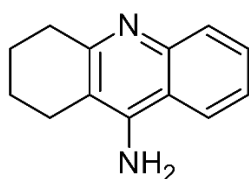
- a. D2 receptor

- b. D3 receptor
- c. D4 receptor
- d. D2 and D3 receptor

9. Which of the following statement is correct with respect to SAR of barbiturates?

- a. At C5 at least one of the hydrogens should be left unsubstituted
- b. N-methylation increase the duration of action.
- c. Replacement of C-2 O by S, deceases lipid solubility.
- d. Halogen at C-5 substitution decrease potency.

10. Indicate which mechanistic class the following drug belong.



- a. Cholinergic antagonist
- b. Muscarinic agonist
- c. Ganglionic blocker
- d. Acetylcholinesterase inhibitor

11. Identify important binding group in catecholamines involved in binding to adrenergic receptors

- a. Tertiary amino group
- b. OH group in S configuration at the C-β to NH<sub>2</sub> group.
- c. Primary or secondary aliphatic amine
- d. 4-amino substitution

12. Which of the following statement is correct with respect binding interaction of Ach with AchE

- a. An anionic site: to which quaternary nitrogen of trimethyl ammonium group binds.
- b. Esteratic site: composed of serine residue binds to carbonyl oxygen of ester group of acetyl choline
- c. Hydrophobic sites: which binds alkyl chain of acetyl choline
- d. All of above

13. Which of the following is used as antidote of organophosphate poisoning

- a. Paraxone

B. Pralidoxime

c. Parathion

d. Malathion

14. Which of the following mechanism used in synthesis of Tacrine

a. Knorr-synthesis

b. Hoffmann mechanism

c. Fries rearrangement

d. Michael reaction

15. Which of the following is non-rigid opioid drug?

a. Pentazocine

b. Meperidine

c. Anileridine

d. Pheniridine

16. Identify name of enzyme that converts prednisone to prednisolone.

a. 17  $\beta$ -hydroxysteroid dehydrogenase enzyme

b. 11  $\beta$ -hydroxysteroid dehydrogenase enzyme

c. 17  $\alpha$ -hydroxysteroid dehydrogenase enzyme

d. 11  $\alpha$ -hydroxysteroid dehydrogenase enzyme

17. Name an alkenylestrogen ether compound used as an oral contraceptive

a. Tamoxiphen

b. Mestranol

c. clomiphene

d. Diethylstilbesterol

18. Give an example of non-steroidal estrogen

a. Clomiphene

b. Diethyl stilbesterol

c. nor-ethindrone

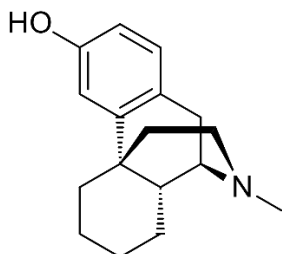
d. Progestrel

19. Drugs used in treatment of Gout

a. Febuxostat

- b. Infliximab
- c. Rituximab
- d. Abatacept

20. what happened when N-methyl group is replaced with N-allyl group?



- a. There is an increase in activity
  - b. There is decrease in activity
  - c. There is loss of all activity
  - d. The compound become an antagonist
21. Which of the following statement is false
- a. the codeine is weaker analgesic than morphine
  - b. The codeine act as prodrug
  - c. The codeine is converted into morphine in the brain.
  - d. The methyl group in codeine masks an important binding group.
22. What interaction are involved in binding phenol group of Morphine to target binding site?
- a. Ionic interaction
  - b. Hydrogen bonding interaction
  - c. Van der Waals binding interaction
  - d. The group has no binding role
23. Which of the following is cytokine inhibitor as anti-inflammatory?
- a. Nimesulide
  - b. Abatacept
  - c. Diclofenac
  - d. Nabumetone
24. Which of the following used as Antidiarrheals as opioid agonist?
- a. Naloxone
  - b. Tramadol

c. loperamide

d. Naltrexone

25. Which of the following chemical class of Nimesulide?

a. Oxicam

b. Aryl propionic acid

c. Arylacetic acid

d. Methane sulfonamide

1. (a) 2. (c) 3. (b) 4. (b) 5. (b) 6. (c) 7. (b) 8. (d) 9. (b) 10. (d) 11. (c) 12. (d) 13. (b) 14. (b) 15. (b) 16. (b) 17. (b) 18. (b) 19 (a) 20 (d) 21. (c) 22. (b). 23 (b) 24. (c) 25 (d)