

KATHMANDU UNIVERSITY
End Semester Examination [C]
December, 2024

Marks Scored:

Level : B.Pharm.
Year : III

Course : PHAR 318
Semester : I

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date 17 DEC 2024

SECTION "A"

[20 Q. × 1 = 20 marks]

Choose and encircle in the most appropriate option from each set of choices

- The sedative hypnotic drugs which does not fall under controlled substance is
a. Midazolam b. Ramelteon c. Flunitrazepam d. Thiopental
- Coadministration of valproate with lamotrigine is not advised because
a. Valproate inhibit the absorption of lamotrigine
b. Valproate forms complex with lamotrigine decreasing its efficiency
c. Valproate is an inhibitor of UDP-glucuronyltransferase
d. Valproate displace lamotrigine from its binding site
- Which one of the following Hypnotic drugs does not have diazepam ring?
a. Oxazepam b. Quazepam c. Zolpidem d. Midazolam
- Es is the measurement of
a. Electronic parameter b. Stericparameter
c. Hydrophilicity d. Hydrophobic
- Which one of the following drugs has short duration of action due to rapid oxidation of its terminal double bond?
a. Secobarbital b. Thiopental c. Glutethimide d. Alprazolam
- Barbituric acid is inactive, because
a. It is rapidly metabolized
b. It is effluxed rapidly by p-gp
c. It remains in highly ionized form to penetrate BBB
d. None of the above because it has potent sedative action.
- Diacetylmorphine is more potent than morphine because
a. It is metabolically more stable
b. It has strong affinity towards μ receptor
c. It acts with more receptors associated with analgesic effect
d. It is highly lipophilic that assist penetration through CNS.
- Which one of the following is Dopamine agonist?
a. Apomorphine b. Selegiline c. Tolcapone d. Amantadine
- Which one of the following is L-aromatic amino acid decarboxylase inhibitor?
a. Levodopa b. Selegiline c. Bromocriptine d. Carbidopa

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10. Short duration of action of Fentanyl citrate is due to
a. Its rapid excretion
b. Its redistribution in the body
c. Its limited absorption
d. Its efflux through P-glycoprotein
11. In Structure-based drug design,
a. Target structures is known
b. Structure of other molecules that bind to the target is known
c. Structure of molecules that bind to the target is unknown
d. Crystallization of the protein is usually done
12. The toxicity of nitrous acid gas is due to
a. It is flammable gas
b. It cause oxidation of the cobalt atom in vitamin B12
c. Low MAC value
d. It is corrosive gas
13. The anticholinesterases acting in the periphery are usually not suitable in Alzheimer's disease because
a. They have charged quaternary nitrogen atom
b. They are not active against acetylcholinesterases located inside the brain
c. They are very toxic to be used in the concentration needed for its management
d. They are good substrate of OATs.
14. What does a negative value of σ signify for a substituent??
a. It is electron withdrawing
b. It is electron donating
c. It is neutral
d. It is hydrophobic
15. MAO-B is selective for
a. Epinephrine
b. Dopamine
c. Norepinephrine
d. 5-HT
16. Which one of the following is metabolically cleaved into Valproic acid
a. Pregablin
b. SPD-421
c. Valroceamide
d. Aripiprazole
17. MAO-B is primarily responsible for the metabolism of
a. Dopamine
b. Norepinephrine
c. Epinephrine
d. 5-HT
18. The antidepressant drug which is a derivative of Isoniazide is
a. Iproniazid
b. Phenelzine
c. Reboxetine
d. Fluoxetine
19. Drug that mimic the MPTP that can cause Parkinson is
a. Clozapine
b. Haloperidol
c. Chlorpromazine
d. Promethazine
20. The lithium salt that is not used as a drug is
a. Citrate
b. Carbonate
c. Chloride
d. All of the above