

2023

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CJ-46

BP-404T
Pharmacology-I
(724404)

Pages : 7]

3 Hours

Max. Marks : 75

- (1) Do not write anything on question paper except Seat No.
- (2) Draw well labelled diagram wherever necessary.
- (3) All questions are compulsory.
- (4) Figures to the right indicate full marks.

Multiple choice questions :

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- 1) Space between two neurons is called as
 - (a) Synapse
 - (b) Ganglion
 - (c) Vesicle
 - (d) None of the above
- 2) What drug does to the body is known as
 - (a) Pharmacodynamic
 - (b) Pharmacokinetic
 - (c) Physiology
 - (d) Biochemistry

P.T.O.

- (3) Which route of administration is responsible for first pass metabolism ?
- (a) Oral
 - (b) Sublingual
 - (c) Intramuscular
 - (d) Intravenous
- (4) Alpha and Beta receptor belongs to
- (a) Parasympathetic division
 - (b) Sympathetic division
 - (c) Somatic
 - (d) All of the above
- (5) Drugs those resemble natural sleep is known as
- (a) Anesthetic drug
 - (b) Hypnotic drug
 - (c) Analgesic drug
 - (d) None of the above
- (6) Major inhibitory neurotransmitter in Mammalian CNS is
- (a) GABA
 - (b) Glutamate
 - (c) Aspartate
 - (d) Histamine

- (7) What body does to the drug is known as ?
- (a) Pharmacodynamics
 - (b) Pharmacokinetic
 - (c) Pharmacology
 - (d) Physiology
- (8) The region of synaptic contact between pre-ganglionic and post-ganglionic neuron is known as
- (a) Neurotransmitter
 - (b) Synapse
 - (c) Ganglion
 - (d) Fibre
- (9) The amount of drug required to produce response is known as
- (a) Efficacy
 - (b) Intrinsic activity
 - (c) Potency
 - (d) Affinity
- (10) Which of the following drugs is inhibitor of decarboxylase enzyme ?
- (a) Imipramine
 - (b) Selegiline
 - (c) Carbidopa
 - (d) All of the above

- (11) Parkinson's disease is due to deficiency of
- (a) Serotonin
 - (b) Dopamine
 - (c) Adrenaline
 - (d) Histamine
- (12) Which of the following MOA is true for Disulfiram ?
- (a) Inhibits CYP 450
 - (b) Inhibits oxidase enzyme
 - (c) Inhibits aldehyde dehydrogenase enzyme
 - (d) All of the above
- (13) The drug having higher affinity towards receptor and higher intrinsic activity is known as
- (a) Antagonist
 - (b) Partial agonist
 - (c) Inverse agonist
 - (d) Agonist
- (14) In which of the following transport mechanism carrier molecule and energy is required ?
- (a) Active
 - (b) Passive
 - (c) Endocytosis
 - (d) Exocytosis

- (15) Ability of the drug to produce the response is known as
- (a) Concentration
 - (b) Affinity
 - (c) Potency
 - (d) Efficacy
- (16) Which of the following functional pathways are applicable to G-protein coupled receptor transduction ?
- (a) Adenyl cyclase
 - (b) Phospholipase
 - (c) Ion channel regulation
 - (d) All of the above
- (17) 5-HT is also known as
- (a) Histamine
 - (b) Dopamine
 - (c) ACH
 - (d) Serotonin
- (18) Which of the following receptors is responsible for longer onset and duration and action ?
- (a) Nuclear receptor
 - (b) GPCR
 - (c) Ion channel receptor
 - (d) Enzyme linked receptor

(19) Which phase of clinical trial is known as post-marketing phase ?

- (a) Phase I
- (b) Phase III
- (c) Phase IV
- (d) Phase II

(20) Which of the following MOA is applicable for local anesthetic drugs ?

- (a) Blockage of impulse conduction
- (b) Voltage gated Na^+ channel blockage
- (c) Decreases depolarization
- (d) All of the above

2. Solve any two :

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- (a) Define receptor. Enlist various receptor families. Explain GPCR in detail.
- (b) Define sympathomimetic drug. Explain pharmacology of ACH.
- (c) Classify antiepileptic drugs and explain the pharmacology of phenytoin.

3. Solve any seven :

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- (1) Write a note on factors affecting absorption.
- (2) Classify antidepressant drugs with examples.

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- (3) Define distribution and comment on protein binding.
- (4) Define general anaesthesia and explain various stages of anaesthesia.
- (5) Define Sedative and Hypnotic Drugs. Give MOA of Benzodiazepines and Barbiturates.
- (6) Comment on new drug development in short.
- (7) Write a note on opoid receptor and define opoid analgesic drugs.
- (8) Discuss routes of drug administration in detail.
- (9) Comment on local anaesthetic drugs.