

# Question Paper

Exam Date & Time: 07-May-2019 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester IV End Semester Examination May 2019

Exam Date: 07-05-2019

### Pharmacology-I [PHA-BP404T]

Marks: 75

Duration: 180 mins.

#### I Multiple Choice Questions (MCQs)

Section Duration: 30 mins

Answer all the questions.

1) Pharmacovigilance is about

(1)

Cost-benefit-analysis for drugs

ADRs, UARs and SUSARs of drugs

Economy of health care provider

Economics in pharmaceutical marketing

Source of Heparin is

(1)

Mineral

Animal

Synthetic

Recombinant DNA technology

3) Which of the following drug can be used topically as eye drops

(1)

Insulin

Thyroxine

Pilocarpine

Choline

4) Which of the following drug shows "Therapeutic Window Phenomena"

(1)

Paracetamol

Lithium carbonate

Amoxicillin

Dextrose

5) Which of the following is a prodrug

(1)

Levodopa

Carbidopa

Dopa

Dopamine

6) Which of the following is not an enzyme inducing drug (1)

Phenobarbitone

Rifampicin

Griseofulvin

Acetaminophen

7) Following is the major neurotransmitter at sympathetic ganglia (1)

Acetylcholine

Adrenaline

noradrenaline

Dopamine

8) Which of the following carrier protein do not involve in termination of transmitter action (1)

Norepinephrine transporter (NET),

Dopamine transporter (DAT),

Serotonin transporter (SERT)

Sodium-dependent choline transporter

9) Which of the following drug is not a mydriatic (1)

Cyclopentolate

Atropine

Brimonidine

Pilocarpine

10) As per the current knowledge which of the following is not exist in peripheral nervous system as neurotransmitter (1)

Noradrenaline

Acetylcholine

GABA

Adrenalin

11) N-Methyltransferase is an enzyme predominant involve in following reaction (1)

Conversion of adrenaline to noradrenaline

Conversion of noradrenaline to adrenaline

Dopamine to DOPA

DOPA to dopamine

12) Among the adrenergic receptors  $\beta_2$  are predominantly present on following tissue (1)

Heart ventricular muscles

Lungs-bronchi

Adipose tissue

Which of the following is not a consequence of first-pass metabolism (1)

Drug require considerably high oral dose

Liver disease might increase oral bioavailability and the toxicity

A small amount of drug remains in the blood for longer time

Variations in oral dose among individuals because of genetic variation in the metabolic enzymes

Which of the following drug is therapeutically used in spinal anaesthesia (1)

Lignocaine

Procaine

Cocaine

Pepavacaine

15) Which of the following drug is centrally acting pain killer (1)

Morphine

Aspirin

Paracetamol

Indomethacin

16) Which of the following drug causes 'dissociative anaesthesia' (1)

Thiopentone

Ketamine

Midazolam

Fentanyl

17) Which of the following neurotransmitter is generally 'Inhibitory' in CNS (1)

Acetylcholine

Noradrenaline

Adrenaline

GABA

18) Which of the following antipsychotic drug produce few or no extrapyramidal effect (1)

Fluphenazine

Haloperidol

Clozapine

Risperidone

19) Sleeping pill will generally have the following drug (1)

Phenytoin

Phenobarbitone

Chlorpromazine

Valproic acid

20) Which of the following is an atypical antidepressant (1)

Imipramine

Nortriptyline

Bupropion

Fluoxetine

### II Long Answers

**Answer all the questions.**

- 1) Describe the mechanism of action of drugs through receptors giving suitable examples for each class of receptors. (10)
- 2) Discuss the pharmacology of any one class of antiepileptic drugs with suitable example, its specific therapeutic use, adverse drug reactions. (10)

### III Short Answers

**Answer all the questions.**

- 1) Describe ADME processing of drugs with suitable example. (5)
- 2) Discuss any five types of factors modifying the drug actions with suitable example. (5)
- 3) Explain any five therapeutic uses of sympathomimetics with one drug example each. (5)
- 4) Discuss the therapeutic uses of skeletal muscle relaxants with one example. (5)
- 5) Explain the diagnosis and pharmacological treatment of Myasthenia Gravis. (5)
- 6) Discuss the drugs used and their mechanism in the treatment of glaucoma. (5)
- 7) How do the drugs alleviate the symptoms of Parkinson's disease? Discuss with one example. (5)

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