

Question Paper

Exam Date & Time: 12-May-2023 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

PHARMACOLOGY [PHA-ER20-21T-S1]

Marks: 80

Duration: 180 mins.

MCQs

Answer all the questions.

Section Duration: 30 mins

20 Q x 1 mark = 20 marks

1) _____ is added to a local anaesthetic solution as a vasoconstrictor. (1)

[Lignocaine](#)

[Adrenaline](#)

[Sodium chloride](#)

[Methyl](#)

[parahydroxybenzoate](#)

2) Which is NOT an ocular action of cholinergic drugs? (1)

[Decrease in intraocular pressure](#)

[Increase in aqueous outflow /](#)

[lacrimation](#)

[Contraction of the ciliary muscle](#)

[Dilation of the pupillary sphincter muscle](#)

3) _____ decreases production of aqueous humor and is used in the treatment of open angle glaucoma. (1)

[Non-specific adrenergic agonists](#)

[Prostaglandins](#)

[Carbonic anhydrase inhibitors](#)

[Parasympathomimetics](#)

4) Imipramine, an antidepressant, is classified as _____. (1)

[Tricyclic antidepressant \(TCA\)](#)

[Reversible inhibitor of MAO-A \(RIMA\)](#)

[Atypical antidepressant](#)

[Selective serotonin reuptake inhibitor](#)

[\(SSRI\)](#)

5) _____ is characterized by deficiency in iron. (1)

[Macrocytic anemia](#)

[Normocytic](#)

[anemia](#)

[Microcytic anemia](#)

[Hemolytic anemia](#)

6) _____ is an anti-asthmatic drug classified as sympathomimetic. (1)

[Terbutaline](#)
[Ketotifen](#)
[Fluticasone](#)
[Etiophylline](#)

7) _____ is an antitussive used to treat cough associated with allergic condition of the respiratory tract. (1)

[Benzonatate](#)
[Promethazine](#)
[Dextromethorphan](#)
[Noscapine](#)

8) _____ is classified as amine autocoid. (1)

[Bradykinin](#)
[Angiotensin](#)
[Serotonin](#)
[Gastrin](#)

9) Select which is NOT the pharmacological action of anti-histaminics. (1)

[Inhibits bronchodilation](#)
[Inhibit release of adrenaline](#)
[Suppresses hypersensitivity](#)
[Prevents anaphylactic fall in blood pressure](#)

10) _____ is a 5-HT antagonist that has anti-histaminic action. (1)

[Ergotamine](#)
[Cyproheptadine](#)
[Phenoxybenzamine](#)
[Chlorpromazine](#)

11) In biologicals, "tinib" suffix is used for _____. (1)

[Protease inhibitors](#)
[Angiogenesis inhibitors](#)
[Tyrosine kinase inhibitors](#)
[RAF kinase inhibitors](#)

12) Nomenclature for monoclonal antibodies derived from chimeric source. (1)

[-omab](#)
[-zumab](#)
[-ximab](#)
[-umab](#)

13) Which among the following do NOT cause tachyarrhythmia? (1)

[Enhanced automaticity](#)
[Triggered activity](#)
[Re-entry](#)
[Conduction block](#)

14) Which is the key enzyme responsible for cholesterol synthesis? (1)

[Lipoprotein lipase](#)
[Triglyceride synthesis](#)

[HMG CoA reductase](#)
[Bile acid](#)
[sequesterant](#)

15) Common side effect of angiotensin converting enzyme inhibitors. (1)

[Dry skin](#)
[GI discomfort](#)
[Blurred vision](#)
[Dry cough](#)

16) Drug recommended for *H. pylori* infection is _____. (1)

[Tetracycline](#)
[Ciprofloxacin](#)
[5-fluoro uracil](#)
[Omeprazole](#)

17) Example for an osmotic purgative. (1)

[Senna](#)
[Magnesium sulphate](#)
[Liquid paraffin](#)
[Bran](#)

18) Which among the following is a potassium sparing diuretic? (1)

[Benzthiazide](#)
[Chlorpropamide](#)
[Spironolactone](#)
[Furosemide](#)

19) Which hormone controls the urine output? (1)

[Aldosterone](#)
[Renin](#)
[Anti-diuretic hormone](#)
[Adrenaline](#)

20) Which one of the following is an anabolic steroid? (1)

[Testosterone](#)
[Stanozolol](#)
[Mestranol](#)
[Hexesterol](#)

Long Answers

Answer all the questions.

6 Q x 5 marks = 30 marks

- 1) Write a short note on sublingual route of administration. List its advantages and disadvantages. (5)
- 2) Describe the mechanism of action of succinyl choline on the skeletal muscles. (5)
- 3) List the use of preanesthetic medication prior to use of general anaesthesia with suitable examples. (5)
- 4) Explain various classes of drugs for hyperthyroidism with a suitable flowchart. (5)
- 5) What are semisynthetic penicillins? Explain their advantages and mechanism of action. (5)
- 6) Write a short note on any one class of anticancer drugs. (5)

Short Answers

Answer all the questions.

10 Q x 3 mark = 30 marks

- 1) Explain the role of simple diffusion in the drug absorption process. (3)
- 2) Discuss the relation between route of drug administration and bioavailability of the drug. (3)
- 3) How do we treat myasthenia gravis? (3)
- 4) What is the mechanism by which NSAIDs show their therapeutic action? (3)
- 5) Why are benzodiazepines commonly used as sedatives? (3)
- 6) Write a short note on the anti-platelet activity of aspirin. (3)
- 7) What is angina pectoris and explain one type of anti-anginal drugs. (3)
- 8) What are prokinetic drugs? (3)
- 9) What are the different types of insulin preparations and how do they differ from each other? (3)
- 10) Explain the mechanism of action of fluoroquinolones. (3)

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