

Question Paper

Exam Date & Time: 07-Jan-2021 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal
PHA BP 503T Pharmacology-II End Sem Examination
Pharmacology II [PHA-BP503T - S2]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

Sec A

- 1) Which among the following diuretics is safer for co-administration with digoxin? (1)
Frusemide
Hydrochlorothiazide
Acetazolamide
Spirolactone
- 2) Identify the centrally acting anti-hypertensive from the following- (1)
Nifedipine
Methyldopa
Phenoxybenzamine
Captopril
- 3) Class-Ib anti-arrhythmic drugs act by blocking - (1)
Blocking Na⁺ channels
Blocking Ca²⁺ channels
Blocking K⁺ channels
Blocking Beta-adrenergic receptors
- 4) Rapid tolerance develops against which of the given anti-anginal drugs? (1)
Nifedipine
Nicorandil
Isosorbide dinitrate
Diltiazem
- 5) Which of the following responses is the most appropriate for the bioassay of digoxin (1)
Cardiac arrest in guinea pig
Contraction of frog rectus abdominis
Contraction of rat fundus
Contraction of chicken ileum
- 6) Which of the following anti-histaminic drugs is commonly used for motion sickness? (1)
Azelastine
Promethazine

- Cetirizine
Loratidine
- 7) Which among the following prevents the conversion of angiotensin-I to angiotensin-II? (1)
- Captopril
Aliskiren
Losartan
Spirolactone
- 8) Prostaglandin analogues cannot be used for? (1)
- Induction of labour
Treatment of Glaucoma
Closure of ductus arteriosus
Management of postpartum haemorrhage
- 9) After its absorption, iron is transported as a complex with (1)
- Ferritin
Transferrin
Haemosiderin
Ferroportin
- 10) Which among the following is heparin antagonist? (1)
- Enoxaparin
Protamine
Danaparoid
Streptokinase
- 11) The drug that acts as an antagonist of purinergic P2Y₁₂ receptors is- (1)
- Abciximab
Clopidogrel
Dipyridamole
Tranexamic acid
- 12) Which of the following anti-hyperlipidaemic acts by regulating gene transcription? (1)
- Cholestyramine
Pravastatin
Nicotinic acid
Gemfibrozil
- 13) All of the following actions of aspirin are mediated by inhibition of prostaglandin synthesis EXCEPT (1)
- Analgesia
Closure of patent ductus arteriosus
Bleeding tendency
Hyperventilation
- 14) Rofecoxib is a selective COX-2 inhibitor. The use of this drug has been banned because of its association with (1)
- Myocardial infraction
Hepatotoxicity
Arrhythmias
Renal failure
- 15) The antidote of choice in paracetamol poisoning is (1)

- BAL
Sodium Bicarbonate
N-Acetyl cysteine
Flumazenil
- 16) Carbimazole as compared to propylthiouracil (1)
- Is less potent
Is shorter acting
Does not produce an active metabolite
Does not inhibit peripheral conversion of T4 to T3
- 17) Insulin having longest duration of action (1)
- Isophane insulin
Protamine zinc insulin
Insulin zinc suspension
Plain insulin
- 18) Monotherapy with which of the following antidiabetic drug can cause hypoglycemia? (1)
- Glibenclamide
Metformin
Pioglitazone
All of the above
- 19) Most potent mineralocorticoid is (1)
- Aldosterone
DOCA
Fludrocortisone
Triamcinolone
- 20) Which of the following is role of Progestogens? (1)
- Inhibits ovulation
Protects against endometrial cancer
Causes prompt withdrawal bleeding
All of the above

II Long Answers

Answer all the questions.

Sec B

- 1) Explain with diagrams, the anti-coagulant mechanism of heparin and warfarin. (10)
- 2) Classify antidiabetic drugs with examples. With a neat Explain the mechanism of action any two different classes of oral hypoglycemic agents. Mention their adverse effects. (10)

III Short Answers

Answer all the questions.

Sec C

- 1) With the help of a diagram explain how glyceryl trinitrate produces smooth muscle relaxation. (5)
- 2) Explain the anti-arrhythmic mechanism of quinidine. (5)
- 3) Describe the mechanism of action of thiazides, using a diagram. (5)
- 4) Depict renin angiotensin aldosterone pathway and list the drugs affecting the system. (5)
- 5) Explain the types of bioassay with examples. How would you conduct the bioassay of Insulin? (5)

- 6) Discuss the mechanisms of actions of female oral contraceptives (5)
- 7) Describe the mechanism of action and pharmacological actions of aspirin. What are its adverse effects? (5)

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