Exam Date & Time: 05-Mar-2022 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

## Pharmacology II [PHA-BP503T]

	Thatmacology if [Time-DI 3031]			
Marks: 75	Duration: 180 mins.			
I Multiple Choice Questions (MCQs)				
Answer all t	he questions. Section Duration: 30 mins			
1)	Which among the following causes hyperpolarization of excitable cardiac cells?			
	1) Disopyramide 2) Mexiletin 3) Sotalol 4) Acetylcholine (1)			
2)	Among the following drugs that dilate blood vessels, choose the one that is predominantly venodilator?			
	1) Isosorbide dinitrate 2) Nifedipine 3) Verapamil 4) Dipyridamole (1)			
3)	Which among the following hyperlipidaemic drugs act via a GPCR?			
	1) Ezetimibe 2) Fenofibrate 3) Atorvastatin 4) Nicotinic acid (1)			
4)	Which among the following carries iron in the blood stream?			
	1) Ferroportin 2) Transferrin 3) Divalent metal transporter-1 4) Ferritin (1)			
5)	Which among the following cannot be used as a styptic?			
	1) Fibrin 2) Gelatin 3) Thrombin 4) Lepirudin (1)			
6)	All the following drugs prevent bleeding, except			
	1) Epsilon amino-caproic acid 2) Aprotinin 3) Tranexaemic acid 4) Urokinase (1)			
7)	Which of the following antiplatelet drugs act by blocking a purinergic receptor?			
	1) Ticlopidine 2) Dipyridamole 3) Abciximab 4) Eptifibatide (1)			
8)	Which among the following is a second-generation anti-histaminic drug? (1)			

	1) Rupatidine 2) Cyclizine 3) Cinnarizine 4) Hydroxyzine	
9)	When 5-hydroxytryptamine is metabolised, the following compound is produced -	
	1) Tyrptophan 2) Indole acetic acid 3) Imidazole acetic acid 4) Vanillyl mandelic acid (1	)
10)	Choose the drug with poor anti-inflammatory action.	`
	1) Indomethacin   2) Acetaminophen   3) Naproxen   4) Diclofenac (1	)
11)	All the following drugs can modulate RAAS, except-	`
	1) Clonidine   2) Captopril   3) Nicardipine   4) Saralasin (1	)
12)	Which of the following highly potent drug decreases A-V conduction in the heart?	`
	1) a) Digoxin 2) b) Adrenaline 3) c) Amiodarone 4) d) Chlorthalidone	)
13)	Which of the hormone acts on renal collecting ducts?	`
	1) Vasopressin   2) Oxytocin   3) Renin   4) Angiotensin   (1	)
14)	Which hormone is released in higher concentration during breastfeeding and inhibits ovulation and prevent pregnancy for several months after postpartum? (1	)
	1) Prolactin 2) Estrogen 3) Progesterone 4) Oxytocin	
15)	What is the mechanism of action of propylthiouracil?	
	Inhibition of thyroid hormone synthesis  2) Inhibition of iodide trapping by thyroid glands  3) Inhibition of release of thyroxin hormone from thyroid glands  (1) Destruction of thyroid tissue and can be used in thyroid cancers	1)
16)	Which hormone is responsible for the fusion of epiphyses in both boys and girls?	
	1) Estradiol 2) Progesterone 3) Cortisone 4) Cortisol	)
17)	"Dope Test" is carried-out in athletes during the athletic competitions for one of the following drugs.  Identify	`
	1) Methandienone 2) Medroxyprogesterone 3) Ethinyl estradiol 4) Dopamine (1	J
18)	What is the target of oxytocin on the uterus? (1	)

	Specific G- protein coupled 1) oxytocin receptors signalling  Nuclear Oxytocin receptors with zinc- finger  Non-specific actions on the uterus to induce contraction  Non-specific actions on the uterus to induce contraction  Transmembrane kinase receptor signalling	
19)	Among the following drugs, bioassay of which of the following drugs show "All or None" response?	(1)
	1) ACTH 2) Digoxin 3) Heparin 4) Adrenaline	(1)
20)	Which organisation does the biostandardisation for biologicals?	(1)
	1) WHO 2) UNESCO 3) USFDA 4) CDCSCO	(1)
	II Long Answers	
Answer	all the questions.	
1)	Describe the mechanism of action and pharmacological actions of insulin. Briefly discuss the different insulin preparations and the adverse reactions of insulin.	(10)
2)	Define and classify androgens with examples. Describe the actions of androgens and anabolic steroids, listing therapeutic applications.	(10)
	III Short Answers	
Answer	all the questions.	
1)	Depict how the actions of a) propafenone and b) bretylium could be useful in the management of arrhythmia.	(5)
2)	Write the differences in the anti-coagulant mechanisms of warfarin and heparin.	(5)
3)	Giving examples, list the uses of serotonergic drugs.	(5)
4)	Explain how leflunomide and sulfasalazine are useful as anti-rheumatoid drugs.	(5)
5)	With examples of drugs, discuss the rationale of blocking the renin-angiotensin aldosterone system in hypertension.	(5)
6)	Discuss the mechanism of action of furosemide and chlorthalidone? Explain their pharmacological uses.	(5)

7) Discuss the therapeutic actions and adverse drugs reactions of corticosteroids

(5)

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