Manipal College of Pharmaceutical Sciences Manipal Academy of Higher Education, Manipal BPharm - V Semester BPharm

End Semester Theory Examination (Make-up), Jan 2023

Course: PHA-BP503T Course code: Pharmacology-II (Theory)

Date: 20-01-2023 Time: 9:00 am - 12:00 noon Max. Marks: 75

Answer all questions

Section - II

Long Answers

(10 Marks x 2 = 20 Marks)

- 1. Explain the mechanisms and adverse effects of warfarin and heparin.
- Classify oral hypoglycaemic agents with examples. With a neat diagram, explain the mechanism of action of any two classes of drugs

Section - II

Short Answers

 $(5 \text{ Marks } \times 7 = 35 \text{ Marks})$

- 1. Explain the role of RAAS in hypertension. Giving examples of drugs illustrate how RAAS inhibitors are useful in controlling hypertension.
- 2. Illustrating the effect of quinidine on action potential of SA nodal cells, explain its role in the treatment of arrhythmia.
- 3. With the help of a diagram, explain how furosemide produces diuretic effect.
- 4. Explain a method to conduct the bioassay of a) adrenaline and b) acetylcholine
- 5. Explain the two therapeutically useful pharmacological actions of steroids
- 6. Explain the synthesis of thyroid hormones. Mention how antithyroid drugs interfere with this process
- 7. Write short notes on oral contraceptives

Section - I Multiple Choice Questions (1 Mar	ks x 20 = 20 Marks) (Reg. No
1. Which among the following is predominant	
a. Lidocaine	J. J
b. Amiodarone	
c. Verapamil	
d. Sotalol	
2. Which among the following directly modula	ates RAAS pathway?
a. Diltiazem	Y
b. Losartan	
c. Prazocin	
d. Minoxidil	
3. Which among the following is a potassium of	channel opener?
a. Diltiazem	- F - Marie
b. Propranolol	
c. Nicorandil	
d. Glyceryl trinitrate	
4. Vitamin K is also known as?	
a. Cobalamin	
b. Folic acid	
c. Calciferol	
d. Phytonadione	
5. Identify the anticoagulant from the following	2?
a. Vitamin K	,
b. Vitamin D	
c. Warfarin	
d. Vitamin C	
6. Which among the following inhibits an enzyr	ne in the cholesterol synthesis nathway?
a. Siinvastann	The sylvanish pattivity.
b. Ezetimibe	
c. Cholestyramine	
d. Nicotinic acid	
7. Identify the antiplatelet drug?	
a. Dipyridamole	
b. Streptokinase	
c. Warfarin	
d. Epsilon amino caproic acid	
8. Which among the following inhibits H1 recept	tors?
a. Ranitidine	
b. Cetirizine	
c. Sumatriptan	
d. Omeprazole	
9. Which among the following exerts diuretic effects	ect due to its osmotic properties?
a. Spironolactone	population.
b. Furosemide	
c. Hydrochlorothiazide	
d. Mannitol	
10. Which method is used for the bioassay of d-tub	ocurarine
TT	

a. Hot-plate method

d. Straub tail reaction

b. Rabbit head drop methodc. Mouse convulsion method

- 11. Based on staining characteristics, the following cells are grouped as Basophils EXCEPT a. Gonadotropes b. Somatotrope c. Thyrotropes d. Corticotropelipotropes 12. Gonadotropins are acting through a. Specific G protein-coupled receptors, activation of adenylate cyclase b. Specific G protein-coupled receptors, activation of Phospholipase C c. Nuclear Receptor d. Enzyme-linked receptor 13. Mechanism of action of Oxytocin is through a. Specific G protein-coupled receptors, activation of adenylate cyclase b. Specific G protein-coupled receptors, activation of Phospholipase C c. Nuclear Receptor d. Enzyme-linked receptor 14. Which of the following is a selective estrogen receptor modulator: a. Raloxifene b. Mifepristone c. Danazol d. Anastzole 15. All of the following preparations of insulin are rapid and short acting EXCEPT a. Lispro b. Aspart c. Glargine d. NPH 16. Which of the following drug is taken during the first part of the meal for the purpose of
 - delaying absorption of dietary carbohydrates?
 - a. Nateglinide
 - b. Pioglitazone
 - c. Acarbose
 - d. Glipizide
 - 17. Mechanism of action of bromocriptine is via
 - a. Agonism at D2 receptor
 - b. Antagonism at D2 receptor
 - c. Antagonism at D1 receptor
 - d. Antagonism at α receptor
 - 18. A drug 'X' primarily reduces the static component of urinary obstruction in BPH and takes more than 3 months to exert its beneficial effect. Which of the following is 'X'?
 - a. Tamsulosin
 - b. Terazosin
 - c. Finasteride
 - d. Amphetamine
 - 19. All are true about Rey's Syndrome EXCEPT:
 - a. Hepatic encephalopathy
 - b. Seen with ampicillin therapy
 - c. Fever and Rash
 - d. Viral associated
 - 20. NSAID lacking anti-inflammatory action is
 - a. Paracetamol
 - b. Ibuprofen
 - c. Diclofenac sodium
 - d. Celecoxib