

F/COE/005

Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE DEEMED TO BE UNIVERSITY

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M.B.B.S DEGREE EXAMINATIONS, APRIL – 2022 SECOND YEAR BMS19205 PHARMACOLOGY – PAPER I

REGISTER NUMBER										

Time: **Three Hours**Maximum Marks: **100**

Answer ALL Questions

Draw Suitable Diagrams wherever necessary

PART - A (2x10 = 20 Marks)

ESSAY

- 1. a) Enumerate four groups of drugs used in the treatment of Parkinson's disease.
 - b) Describe the pharmacological actions and adverse effects of levodopa.
 - c) What is the advantage of combining levodopa with the peripheral decarboxylase inhibitor? (4+5+1)
- 2. a) Classify antihypertensive drugs.
 - b) Describe the mechanism of action, uses and adverse effects of angiotensin converting enzyme (ACE) inhibitors. (4+6)

PART - B (8x5 = 40 Marks)

DETAILED ANSWERS

Explain the following

- 3. Plasma half-life.
- 4. Transdermal therapeutic system.
- 5. Propofol.
- 6. Amphetamine.
- 7. Tramadol.
- 8. Dopamine in cardiogenic shock.
- 9. Therapeutic uses of adrenergic drugs.
- 10. Mechanism of action of loop diuretics.

$\underline{\mathsf{PART}} - \underline{\mathsf{C}} (10x2 = 20 \, \mathsf{Marks})$

SHORT NOTES

- 11. Rationale for use of calcium channel blockers in angina.
- 12. What is Pharmacogenomics? Give an example.
- 13. What are Orphan drugs?
- 14. What is latrogenic disease? What are the types?
- 15. Write low molecular weight heparins and their therapeutic uses.
- 16. Name two fibrinolytics and their therapeutic uses.
- 17. Name four drugs used in angina pectoris.
- 18. Write the mechanisms of action of cocaine.
- 19. Write the mechanisms of actions of atypical antipsychotics.
- 20. Name the dose dependant pharmacological effects of Dopamine.

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PHARMACOLOGY - PAPER I

<u>PART - D</u> (20x1 = 20 Marks) <u>MULTIPLE CHOICE QUESTIONS</u>

21.	A hy	drophilic medicinal agent has the following property:
	A.	Low ability to penetrate through the cell membrane lipids
	B.	Penetrate through the membranes by means of endocytosis
	C.	Easy permeation through the blood-brain barrier
	D.	High reabsorption in renal tubules
22.		ch of the following processes proceeds in the second phase of ransformation?
	A.	Acetylation
	B.	Reduction
	C.	Oxidation
	D.	Hydrolysis
23.	Irre	versible interaction of an antagonist with a receptor is due to:
	A.	ionic bonds
	B.	hydrogen bonds
	C.	covalent bonds
	D.	substrate
24.	Indi	cate the local anesthetic agent, which has a shorter duration of action.
	A.	Lidocaine
	B.	Procaine
	C.	Bupivacaine
	D.	Ropivacaine
25.	Indi	cate the drug, which has greater potency of the local anesthetic action.
	A.	Lidocaine
	B.	Bupivacaine
	C.	Procaine
	D.	Mepivacaine
26.	Whi	ch of the following cholinomimetics activate both muscarinic and nicotinic
		ptors?
	A.	Lobeline
	B.	Pilocarpine
	C.	Nicotine
	D.	Bethanechol

27.	Para	asympathomimetic drugs cause
	A.	bronchodilation
	B.	mydriasis
	C.	bradycardia
	D.	constipation
		,
28.	\//hi	ch of the following sympathomimetics acts indirectly?
20.	A.	Epinephrine
	В.	Norepinephrine
	C.	Ephedrine
	D.	Methoxamine
	D.	Wethoxamine
	_	
29.		cate the sympathomimetic, which may cause hypotension, presumably ause of a clonidine-like effect.
	A.	Methoxamine
	B.	Phenylephrine
	C.	Xylometazoline
	D.	Isoproterenol
30.	Solo	ect a hypnotic drug, which is an benzodiazepine derivative.
30.	A.	Zolpidem
	В.	Flurazepam
	C.	Secobarbital
	D.	Phenobarbitone
	D.	THEHODAIDIONE
31.	Sele	ect a hypnotic agent which is a barbituric acid derivative.
01.	A.	Pentobarbital
	B.	Temazepam
	C.	Thyopental
	D.	Triazolam
		mazoram
32.	Sele	ect a hypnotic drug, which is an imidazopyridine derivative.
<i>J</i> 2.	A.	Pentobarbital
	B.	Temazepam
	C.	Zolpidem
	D.	Chloral hydrate
33.	The	drug against myoclonic seizures is:
	Α.	primidone
	B.	carbamazepine
	C.	clonazepam
	D.	phenytoin

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34.		ect the agent, which is preferred in the treatment of the drug-induced form of kinsonism.
	A.	Levodopa
	B.	Bromocriptine
	C.	Benztropine
	D.	Dopamine
35.	Indi	cate the second-generation heterocyclic drug.
	A.	Maprotiline
	B.	Imipramine
	C.	Phenelzine
	D.	Fluoxetine
36.		ch drug DOES NOT influence leucopoiesis?
	A.	Filgrastim
	B.	Erythropoietin
	C.	Doxorubicin
	D.	Methotrexate
37.		ect the drug used in pernicious anemia.
	Α.	Ferrous lactate
	В.	Cyanocobalamin
	C.	Iron dextran
	D.	Ferrous gluconate
38.		ect the drug of granulocyte colony-stimulating factor.
	A.	Filgrastim
	В.	Methotrexate
	C.	Erythropoietin
	D.	Doxorubicin
39.	Indi	cate the drug belonging to anticoagulants of direct action.
	A.	Aspirin
	B.	Heparin
	C.	Dicumarol
	D.	Phenprocoumon
40	\A/L:	
40.		ch of the following drugs is an inhibitor of platelet glycoprotein Ilb/Illa
	Α.	Aspirin
	B.	Clopidogrel
	C.	Ticlopidine
	D.	Abciximab



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M.B.B.S DEGREE EXAMINATIONS, APRIL – 2022 SECOND YEAR BMS19206 PHARMACOLOGY – PAPER II

REGISTER NUMBER											

Time: **Three Hours**Maximum Marks: **100**

Answer ALL Questions

Draw Suitable Diagrams wherever necessary

PART - A (2x10 = 20 Marks)

ESSAY

- 1. a) Classify penicillins and write their mechanism of action.
 - b) Write the uses and adverse effects of amoxicillin.

(6+4)

- 2. a) Classify oral anti-diabetic drugs.
 - b) Describe the mechanism of action and adverse effects of sulfonylureas. (4+6)

PART - B (8x5 = 40 Marks)

DETAILED ANSWERS

Explain the following

- 3. Uses and adverse effects of glucocorticoids.
- 4. Rationale of combining estrogen and progestin for contraception.
- 5. Uses and adverse effects of ciprofloxacin.
- 6. Second generation anti-histamines.
- 7. Selective cyclooxygenase-2 (COX-2) inhibitors.
- 8. Metronidazole.
- 9. Fluconazole.
- 10. Methylxanthenes used in bronchial asthma.

$\underline{\mathsf{PART}} - \underline{\mathsf{C}} \ (10x2 = 20 \ \mathsf{Marks})$

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SHORT NOTES

- 11. Write the uses and adverse effects of Loperamide.
- 12. What are the uses of Domperidone?
- 13. Write the uses of acyclovir.
- 14. What is Sumatriptan? Write its uses.
- 15. What is Methyl ergometrine used for?
- 16. Write the side effects of Carbimazole.
- 17. Briefly write the Vitamin-D preparations and uses.
- 18. What is Tacrolimus. What are the uses?
- 19. Give examples of Mucolytics.
- 20. What are the uses of Sucralfate?

M.B.B.S DEGREE EXAMINATIONS, APRIL – 2022 SECOND YEAR BMS19206

PHARMACOLOGY – PAPER II PART - D (20x1 = 20 Marks) MULTIPLE CHOICE QUESTIONS

21.	Whi	ch of the following is a topically used aminoglycoside?
	A.	Neomycin
	B.	Amikacin
	C.	Streptomycin
	D.	Netilmicin
22.	The	target of action of fluoroquinolones in Gram positive bacteria is,
	A.	topoisomerase – II
	B.	folate synthetase
	C.	topoisomerase – IV
	D.	dihydrofolate reductase
23.		drug which can prevent relapse of Plasmodium vivax malaria is:
	A.	Mefloquine
	B.	Primaquine
	C.	Chloroquine
	D.	Hydroxy chloroquine
24.		ch of the following anti-retroviral drugs is an Integrase inhibitor?
	Α.	Ritonavir
	B.	Tenofovir
	C.	Lopinavir
	D.	Raltegravir
25.		mechanism of action of teneligliptin is the inhibition of
	Α.	dipeptidyl peptidase-4
	B.	sodium-glucose cotransport-2
	C.	alpha-glucosidase
	D.	insulin release
26.		he following drugs are useful in the treatment of osteoporosis, EXCEPT
	Α.	Clomifene
	B.	Alendronate
	C.	Calcitriol
	D.	Raloxifene

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27.	Met	oclopramide acts through the following mechanisms, EXCEPT
	A.	Dopamine D2 receptor antagonism
	B.	Muscarinic M3 receptor antagonism
	C.	5-HT₄ receptor agonism
	D.	5-HT ₃ receptor antagonism
20	\//bi	ah of the following druge inhibite miteria by demoging microtubules?
28.	A.	ch of the following drugs inhibits mitosis by damaging microtubules? Cisplatin
	В.	Alendronate
	C.	Calcitriol
	D.	Raloxifene
	υ.	Naioxilerie
29.	The	drug which is effective in leprosy as well as controlling lepra reaction is,
20.	Α.	Clofazimine
	В.	Rifampin
	C.	Dapsone
	D.	Prednisolone
		T Todalisololio
30.	Albe	endazole is useful against all the following, EXCEPT
00.	A.	Ascaris lumbricoides
	B.	Enterobius vermicularis
	C.	Entamoeba histolytica
	D.	Ancylostoma duodenale
31.	Whi	ch of the following drugs inhibits enkephalinase and decrease intestinal
		ersecretion?
	A.	Metoclopramide
	B.	Racecadotril
	C.	Esomeprazole
	D.	Liquid paraffin
32.	Whi	ch of the following is an example of GnRH antagonist?
	A.	Cabergoline
	B.	Octreotide
	C.	Ganirelix
	D.	Goserelin
33.	Whi	ch of the following statements about corticosteroids is incorrect?
	A.	They enhance renal excretion of calcium.
	B.	Enhance destruction of malignant lymphatic cells.
	B. C.	Decrease glucose uptake in peripheral tissues.

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34.	The	preferred drug to treat chronic adrenal insufficiency is:	
<u> </u>	A.	betamethasone	
	B.	beclomethasone	
	C.	hydrocortisone	-
	D.	triamcinolone	
35.	\//hi	ch of the following statements about paracetamol is incorrect?	
00.	Α.	It is a safe anti-pyretic in elderly people.	
	В.	It has anti-platelet action in low doses.	
	C.	Acts on Cyclooxygenase-3 in the central nervous system.	
	D.	It cannot inhibit Cyclooxygenase in the presence of peroxides.	
		The comment of the configuration and processes on personal configuration	
36.	Whi	ch of the following drugs is NOT useful in acute gout?	
	A.	Probenecid	
	B.	Naproxen	
	C.	Colchicine	
	D.	Diclofenac	
37.		ch of the following prostaglandin preparations is used in glaucoma?	
	A.	Dinoprost	
	В.	Gemeprost	
	C.	Carboprost	
	D.	Travoprost	
38.	Whi	ch of the following insulin preparations may be administered by intra	venous
	A.	Insulin Glargine	
	B.	Isophane insulin	
	C.	Regular insulin	-
	D.	Insulin detemir	
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39.		he following drugs used in bronchial asthama can be inhaled, EXCE	PT
	Α.	Montelukast	
	В.	Sodium cromoglycate	
	C.	Formoterol	
	D.	Ipratropium bromide	
40.	\/\/hi	ch of the following anti-histamines is used as appetite stimulant?	
_+∪.	Α.	Cyproheptadine	
	В.	Chlorpheniramine	
	C.	Fexofenadine	
	D.	Cinnarizine	
	J -		