Second host

Phoumocology. II CBGS OP Code: 10417

(3 Hours)

Total Marks: 70

N.			questions are compulsory. ures to the right indicate full	market	di 1	
		Z) Fig	ures to the right indicate tun	HIMENS.		
L	(a)	Answ	er the following:-			12
		(i)	Methicillin can be used in infections. Justify	penicilli	nase producing staphylococcal	
		(ii)	Patients given sulphonamides	are advis	ed to drink plenty of water. Justify	
		(iii)	Why do cancer cells evoke a v	veak imn	nune response and go undetected.	
		(1V)	Explain mechanism of action	of iodic	les as anti-thyroid agents.	
		(v)	Enlist the different types of o	ral cont	raceptives	
		(vi)	Enlist factors affecting iron a	bsorptic	n form gastro-intestinal tract.	
	(b)	Match	the following:-			3
			Drugs		Adverse effects	
		(i)	Tacrolimus	(a)	Ototoxicity	
		(ii)	Tetracyclins	(b)	Nephrotoxicity	
		(iii)	Heparin	(c)	Haemochromatosis	
				(d)	Thrombocytopenia	
2.	(a)	Write	short notes on any two of the	followii	ng :-	8
		(i)	First line drugs in treatment	of tubero	ulosis	
		(ii)	Agents used to treat herpes in	nfection		
		(iii)	Extended spectrum penicillin	15		
	(b)	Atten	pt any one of the following :-			3
		(i)	Justify the combination of tri	imethopi	rim and sulphamethoxazole	
		(ii)	Write a short note on alkylati			
3.	(a)	Atten	pt any two of the following :-			8.
		(i)	Explain the process of bone	remodell	ing. Add a note on bisphonates.	
		(ii)	Explain mechanism of action	of insul	in. Discuss in brief the action of	
			insulin on liver.			
		(iii)	Write a short note on Oxytoc	ics.		
	(b)		er any one of the following :-			3
		·(i)	Explain rationale of using vi	tamin D	with calcium supplements.	
		(ii)	Write a note on propylthiour	neil		
4.	(a)	Atten	pt any two of the following			8
		(i)	Classify anticoagulants. Wri and uses of heparins.	te a shor	rt note on mechanism of action	
		in		e of falls	acid and its role in treatment of	
		(11)	anamia	e or ross	acid and its role in treatment of	-

(iii) Classify anti-platelets. Add a note on clopidogrel.

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	(b)	Answer any one of the following :-	3
		(i) Explain mechanism of action and role of Vitamin K	
		(ii) Write a brief note on fibrinoltics.	
5.	(a)	Write short notes on any two of the following :-	8
		(i) Azole antifungals	
		(ii) Drugs used in leprosy	
		(iii) Macrolide antibiotics	
	(b)	Answer any one of the following:-	3
		(i) Discuss combination therapy of antimicrobials.	
		(ii) Classify antimalarials and write a note on primaquine.	
6.	(a)	Answer any two of the following :-	8
		(i) Write a short note on glucorticoids as immuno-suppresant agents.	1.0
		 (ii) Classify oral anti-diabetic drugs. Explain mechanism of action and uses of sulphonylureas. 	
		(iii) Describe treatment of hypothyroidism.	
	(b)	Write short notes on any one of the following :-	3
		(i) Vinca alkaloids in cancer	40
		(ii) Metronidazole	
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First Half of 2015 T. 4.B. Phasin, Sem - I (Reexam) . Phosmacology - II

QP Code: 16121

(3 Hours)

Total Marks: 70

N.			questions are compulsory. ures to the right indicate full marks.	
1.	(a)	Answ	er the following: Enlist the various mechanisms for development of microbial resistance.	12
		(ii)	Give mechanism of action of aminoglycosides.	
		(iii)	CD4 cell count gets depleted in HIV infection. Justify.	
		(iv)	Name the hormones secreted by thyroid gland. Give the physiological	
			role of one of the thyroid hormone.	
		(v)	Give mechanism of action of DPP-IV inhibitors.	
		(vi)	Enlist factors affecting iron absorption.	
	(b)	Fill in	the blanks:	3
		(i)	produces gray baby syndrome.	
		(ii)	Active form of vitamin D is	
		(iii)	Aspirin inbibits enzyme to produce its analgesic and anti- inflammatory action.	
2.	(a)	Answ	er any two of the following :-	8
			Explain the cycle of malerial parasite indicating various targets for	
			anti-malerial drug action.	na construire shares
	10000	(ii)	Classify anti-cancer drugs. Explain pharmacology of any one class.	
		(iii)	Give classification, mechanism of action and therapeutic uses of penicillin.	3
	(b)	Write	short note on acy one of the following :-	
		(i)	Tetracyclines	
		(ii)	Albendarole	8
3.	(a)	Answ	er any two of the following :	
		(i)	Clescify anti-diabetic drugs. Explain mechanism of action and unwanted effect of sulfonylureas.	
		(ii)	Write a short note on anti-thyroid drugs.	
		(ili)	Explain pharmacological action, adverse effect and clinical uses of	
			oxytocin.	3
SER.	(P)	Answ	er any one of the following:-	
		(i)	What are the different types of oral contraceptives. Explain mechanism	

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of action of combined pill.

- (ii) Explain the role of parathyroid hormones in the treatment of osteoporosis.
- (a) Explain mechanism of action, adverse effects and clinical uses of any two drugs:—
 - (i) Heparin
 - (ii) Aspirin
 - (iii) Folic acid
 - (b) Write short notes on any one of the following :-
 - (i) Vitamin K
 - (ii) Thrombolytic Drugs
- 5. (a) Answer any two of the following :-
 - (i) Sulphonamides are not very effective in presence of pus justify. Explain mechanism of action of trimethoprim.

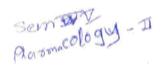
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- (ii) Write a short note on chemotherapy of AJDs
- (iii) Classify anthelmintic drugs. Write a short note on Metronidazole.
- (b) Answer any one of the following :-
 - (i) Classify anti-fungal drugs on the basis of mechanism of action
 - (ii) Classify anti-tubercular drugs. Add a note on mechanism of action of Rifampicin.
- 6. (a) Answer any two of the following :-
 - (i) Write a short note on Immunosuppresant.
 - (ii) Give mechanism of action and complications of insulin.
 - (iii) Classify the drugs used for treatment of osteoporosis. Elaborate on pharmacological actions of vitamin-D.
 - (b) Answer any one of the following :-
 - (i) Give raechanism of action of Amphotericin B and Azole antifungals.
 - (ii) Write a short note on Dapsone.

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(2015-2016)



QP Code: 21741

(3 Hours) [Total Marks: 70 N.B.: (1) All questions are compulsory. (2) Figures to right indicate full marks. 1. (a) Answer the following: (i) Define :- (i) Bioavailability Bioequivalence (ii) (ii) Name the factors affecting plasma half life. (iii) What are enzyme linked receptors? Classify them giving examples of each type. (iv) Give classification of anti-hypertensive drugs. (v) What are the clinical uses of skeletal muscle relaxants ? (vi) Give the mechanism of action of Rescrpine. (b) (i) Define metabolism. What purpose does it serve? 3 (ii) Enlist factors modifying drug action. (iii) Classify cholinergic muscarinic receptors giving examples of agonists and antagonists at these receptors. 2. (a) Answer any two of the following: What are phase I reactions? Give the different types of Phase I reactions? (ii) What are the various routes of administration of a drug? Write briefly on each route. (iii) Explain the renal route of excretion (b) Write short notes on any one of the following : (i) Discuss nephrotoxicity. Give examples of drugs causing nephrotoxicity. (ii) What are mutagens? How do they differ from carcinogens? 3. (a) Answer any two of the following: (i) Explain the effector pathways for GPCR. (ii) What is enzyme induction ? Give examples of drugs which are potent enzyme inducers. (iii) What is drug potency, drug efficacy and drug selectivity? Explain with examples. (b) Answer any one of he following: Classify adrenergic alpha receptors. Give location and actions on their activation. Write a short note on acetylcholine esterase inhibitors.

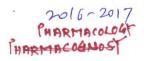
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4.	(a)	Ansv	wer any two of the following :	8
		(i)	Describe synthesis, storage, release and metabolism of epinephrine and norepinephrine.	0
		(ii)	Explain in detail the therapeutic effects of anticholinergic drugs.	
		(iii)		
	(h)	Ans	wer any one of the following :	
	(0)	(i)	Explain the mechanism of action of tyramine.	4
		(ii)	Classify beta adrenoceptor antagonists. Give their uses in the therapy of	
		(m)	cardiovascular disease.	
			cardiovascular disease.	
æ.	60	Amos	wer any two of the following :	
2.	(a)			8
		(i)	Write a short note on calcium channel blockers in the management of cardiovascular disease. Classify them giving examples of each class.	
		(ii)	Classify drugs used in antihyperlipidemic therapy. Write a short note on	
			fibrates.	
		(iii)	Classify anti-hypertensive drugs with examples. Write briefly about their mechanism of action.	
	(b)	Ansv	wer any one of the following:	-3
		(i) (ii)	What is the mechanism of action of ACE inhibitors. Give examples. What is the effect of digitalis glycosides in congestive cardiac failure.	1607
6.	(a)	Ansv	ver any two of the following:	8
		(i)	Explain the use of diuretics in hypertension.	
		(ii)	When will potassium sparing diurctics be administered to a patient ?	
		(iii)	Give therapeutic classification of adrenergic drugs. Write a note on CNS stimulants.	
	(b)	Ansv	ver any one of the following :	3
	(4/2/4	(i)	How does age and gender affect drug action ?	40
		(ii)	Define TDM. What is its significance in drug therapy ?	
		41.00	50.70	

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SEM-I SECOND MAK 2016 PCO-87-IT Q. P. Code: 499900

(3 Hours)

[Total Marks: 70

N.B.: (1) All questions are compulsory.

(2) Figures to the right indicate full marks.

1. a) Answer the following:-

12

- Enlist the first line drugs used in treatment of TB. i)
- ii) Penicillin and Amino glycoside antibiotics in combination exhibit synergistic action, justify.
- iii) Enlist the clinical uses of Immuno-supressants.
- iv) Classify insulin preparations.
- v) Name the drug used in "Emergency Contraception" and give its mechanism of action.
- vi) Give two examples of Tissue Plasminogen Activator. Justify their use after stroke.
- Match the following :-

3

- i) Carbenicillin
- a) Anti-fungal
- Carbimazole
- b) Anti-Platelet
- iii) Clopidogrel
- c) Anti-Pseudomonas
- d) Thyrotoxicosis
- 2. a) Answer any two of the following :-

- Classify anti-microbials on mechanism of action. Write a note on i) rational use of antibiotics.
- Enlist the anti-metabolites used in Cancer. Write a note on Methotrexate.
- Illustrate targets of anti malarial drugs. Elaborate on mechanism of action, side effects and uses of chloroquine.



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	b)	Answer any one of the following:-	3
	i)	Write a short note on Zidovudine.	2.5
	ii)	Write a short note on topical anti fungal agents.	(P)
•			
3.	a)	Answer any two of the following:-	8
	i)	Classify oral Hypo glycaemic agents. Write a note on Biguanides.	
	ii)	What are the abnormalities of Thyroid function. Give an account on drugs used in hyperthyroidism.	
	iii)	What is the hormonal control of bone mineral homeostasis. Explain	
	- 5.0	the role of bisphosphonates in treatment of osteoporosis.	
	b)	Write short note on any one :-	3
:	i)	Oxytocin	0
	ii)	DPP-IV Inhibitors	
4	a)	Answer any two of the following :-	8
	i)	Discuss the pharmacology of Folic acid.	U
	ii)	Enlist Platelet inhibitors. Discuss the Pharmacology of Aspirin.	
	iii)	Give a detailed account on Iron preparations.	
		propulations.	
•	b)	Write a short note on any one :-	3
	i)	Vitamin K	3
	ii)	Streptokinase	
	11)	Streptokinuse	
5.	a)	Answer any two of the following:-	8
	i)	Classify anti amoebic drugs. Give an account on mixed amoebicidal agents.	0
	ii)	Classify Anti-viral agents. Write a note on protease inhibitors.	
	iii)	Classify Anthelmentics. Write a note on Mechanism of action, side effects	
	/	and Uses of Albendazole.	
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	b)	Write short note on any one :-	2
	i)	Sulphonamides .	3
	ii)	Chloramphenicol	

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6. a) Answer any two of the following:-

- Classify Immunomodulators with Examples. Enlist the clinical applications of Immunomodulators.
- ii) Give a detailed account on use of Glucocorticoids as Immuno suppresants.
- iii) Write a note on effect of insulin on carbohydrate, fat and protein metabolism.
- b) Write short note on any one :-
- i) Extended spectrum penicillins
- ii) Amphotericin B



