

2106000102020102

Examination February-March 2024 SECOND MBBS PHARMACOLOGY (PAPER - II) - LEVEL 2

[Time: Three Hours] [Max. Marks: 100]

Instructions:	Seat No:	
1. Fill up strictly the following details on your answer book		
 Name of the Examination: SECOND MBBS 		
 b. Name of the Subject: PHARMACOLOGY (PAPER - II) - 		
LEVEL 2		
 Subject Code No: 2106000102020102 		
Sketch neat and labelled diagram wherever necessary.		
Figures to the right indicate full marks of the question.		
All questions are compulsory.		
Answer should be precise and to the point.	Student's Signature	
Give examples and figures if needed.		
First 20 mins have been allotted to solve multiple-choice questions.		

SECTION - I

Q.1 Multiple choice questions

1*20=20

- Each question carries one mark and there is no negative marking.
 - Mechanism of action of digoxin is:
 - Na⁺K⁺ ATPase pump inhibition
 - b. Na⁺H⁺ ATPase pump inhibition
 - c. H⁺K⁺ ATPase pump inhibition
 - d. Na+Cl ATPase pump inhibition
 - 2. Which of the following antihypertensive is NOT used in pregnancy?
 - a. Methyldopa
- b. Nifedipine
- c. Labetalol
- d. Enalapril
- Which of the following is a class III antiarrhythmic drug?
 - a. Phenytoin
- b. Pindolol
- c. Amiodarone
- d. Propafenone





4. Which of the following drug causes highest increases in serum High density					
lipoprotein (HDL)?					
a. Lovastatin	b. Gemfibrozil				
c. Niacin	d. Colestipol				
5 Which of the following of	drug is preferentially a venodilator?				
a. Hydralazine	b. Minoxidil				
c. Nifedipine	d. Nitroprusside				
c. tylicalphic	d. Pritoprusside				
6. Captopril causes all of the following adverse reactions EXCEPT					
 a. Dry cough 	b. Hypokalemia				
c. Angioedema	d. Dysguesia				
7. All of the following antiplatelet drugs are GpIIb/IIIa antagonist EXCEPT:					
a. Prasugrel	b. Abciximab				
c. Tirofiban	d. Eptifibatide				
8. Filgrastim is used in treatment of:					
a. Anemia	b. Neutropenia				
 c. Thrombocytopenia 	d. Polycythemia				
Which of the following antithyroid drug is relatively safer in first trimester					
of pregnancy?	(10° X1				
a. Methimazole	b. Propylthiouracil				
c. Amiodarone	d. Carbimazole				
10. Drug used in induction o	f ovulation is:				
a. Clofibrate	b. Clomiphene				
c. Clozapine	d. Clevidipine				
c. Ciozapine	d. Cievidipine				
11. Corticosteroids are contraindicated in all of the following EXCEPT:					
a. Congestive heart failure b. Ileocecal tuberculosis					
c. Bronchial asthma	d. Peptic ulcer				
12. Most common toxicity of	f bisphosphonates used in therapy of osteoporosis is:				
a. Esophageal irritation					

c. Chalkstick fracture of femur d. Osteomalacia



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	13. Which of the following is ad	lverse effect of Cyclo	pphosphamide?	
		. Neuropathy		
		l. Hemorrhagic cystit	is	
	14. Cyclosporine inhibits prolife	eration of which of th	e following cells:	
	a. T Cells	. B cells		
	c. Both T cells & B cells	l. NK cells		
	15. The persistent suppression o antimicrobial drug is called:	_	ter limited exposure to some	
	 Time dependent killing 	b. Concent	ration dependent killing	
	c. Post-antibiotic effect	d. Quorum	sensing	
	16. Aminoglycosides can cause	which of the following	ng toxicity?	
	a. Ototoxicity		 Nephrotoxicity 	
	c. Neuromuscular Junction	Blockade	d. All of the above	
	17. Cilastatin is given as fixed d	ose combination (FD	C) with:	
	a. Clavulanic acid b	o. Amoxycillin		
	c. Piperacillin	l. Imipenem		
			0	
	Which of the following antit	ubercular drug act by	Inhibiting mycobacterial	
	ATP synthase?	0.		
		. Levofloxacín		
	c. Ethambutol	l. Bedaquiline		
	10 Which of the following is no	u of Minuton of M	stronidoralo?	
	19. Which of the following is no	1/2		
	-	y. Pseudomembranou	s colitis	
	c. Giardiasis	l. Amoebiasis		
	Ondansetron act as an antier	netic by its which of	the following action?	
	 a. Substance P antagonism 			
	 b. D₂ receptor antagonism 			
	 c. 5-HT₃ receptor antagonis 			
	d. Cannabinoid (CB ₁) recep	otor antagonism		
Q.2	Answer in short [any five]:			3*5=15
	 Enumerate drugs used in p 		•	
	mechanism of action of pro	oton pump inhibitors	(PPIs).	

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- What is antimicrobial drug resistance? Describe mechanisms underlying antimicrobial drug resistance.
- Elaborate two prolactin inhibitors giving their uses and adverse effects.
- d. Write the mechanism of actions and adverse reactions of tetracycline.
- Enlist drugs used in osteoporosis. Write mechanism of action and two adverse reactions of bisphosphonates.
- f. What is informed consent? Explain its importance in clinical practice with an example.

Q.3 Write answers in details [any three]:

5*3=15

- Discuss role of nitrates in angina pectoris.
- b. Describe the mechanism of action and therapeutic uses of ACE inhibitors.
- Enumerate oral iron preparation. Describe adverse effects and drug interactions of oral iron therapy.
- d. Pharmaco-therapy for urinary tract infection (UTI).

Q.4 Answer the following questions based on the given case scenario:

10*1=10

A 35-year-old female patient had recurrent episodes of nose bleed accompanied by severe headache since last few days. On examination his blood pressure and pulse were 170/90 mm of Hg and 100/minute, respectively. The diagnosis is essential hypertension.

a. Write drug therapy for managing this patient.

4

 Describe the mechanism of action and two adverse drug reactions to chosen drugs.

4

c. Describe drugs used for treatment of hypertension in pregnancy?

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SECTION - II

Q.5 Write answers in short [any five]:

3*5=15

- Describe advantages of Low molecular weight heparin (LMWH) over unfractionated heparin (UFH).
- b. Describe the rationale of 'Boosted PI regimen' in pharmacotherapy of HIV.
- Write a short note on low dose aspirin.
- d. What is counterirritation? Describe various counterirritants used topically for relieving muscular pain.
- Write rationale of combining aluminium hydroxide and magnesium hydroxide as antacids.
- Describe mechanism of action of penicillin in treatment of gram-positive bacterial infection. Enumerate its clinically important adverse reactions.



Write answers in details [any three]: Q.6

5*3=15

- Write a short note on thiazides.
- Outline pharmacotherapy of hyperthyroidism.
- Describe adverse drug reactions of corticosteroids.
- Mention mechanism of action and uses of fluroquinolones.

Answer the following questions based on the given case scenario: 0.7

10*1=10

3

A 21-year-old lady from Orrisa presents in clinic with a history of fever, anorexia and weakness since last two days. Fever is intermittent in nature accompanied by chills & rigors. Blood smear examination showed P. falciparum. The diagnosis is P. falciparum malaria.

- Mention suitable drug therapy for this patient.
- Explain the rationale behind artemisinin-based combination therapy (ACT).
- c. Enumerate two drugs used for chemoprophylaxis of malaria along with their adverse reactions. www.FirstRanker.com

