

# 2106000102020101-S EXAMINATION MARCH-APRIL 2024 BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (SECOND YEAR) PHARMACOLOGY (PAPER - I) - LEVEL 2 OMR

[Time: As Per Schedule] [Max. Marks:100]

### Instructions:

- 1. Fill up strictly the following details on your answer book
  - Name of the Examination : BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (SECOND YEAR)
  - b. Name of the Subject : PHARMACOLOGY (PAPER I)-LEVEL 2 OMR
  - Subject Code No : 2106000102020101-S
- Sketch neat and labelled diagram wherever necessary.
- 3. Figures to the right indicate full marks of the question.
- 4. Answers should be precise and to the point.
- Give examples and figures if needed.
- First 20 mins have been allotted to solve multiple choice Questions.

Seat No:						

Student's Signature

1\*20=20

Section I

# Q.1 Multiple choice questions (MCQs)

### Instructions:

- Encircle the most appropriate answer.
- Each question carries one mark and there is no negative marking.
- Overwriting is not allowed.
- Acidic drugs bind to :
  - a. Albumin

b. β Globulin

c. Enzyme

d. Receptor

- A highly ionized drug:
- a. Is excreted mainly by the kidney
- b. Can cross the placental barrier easily
- Is well absorbed from the intestine
- d. Accumulates in the cellular lipids

3. At toxic doses, zero order kinetics is seen in:



a. Penicillin		b. Phenytoin				
c. Valproate		d. Carbamazepine				
Which of the following has cytoplasmic receptor:						
a. Epinephrin		b. Insulin				
c. FSH		d. Cortisol				
5. Therapeutic mor	. Therapeutic monitoring of plasma level of drug is done when					
using all of the f	ollowing drugs exc	ept:				
<ol> <li>Warfarin</li> </ol>		b. Gentamycin				
c. Phenytoin		d. Cyclosporine				
6. In which phase of	of clinical trials, po	st-marketing surveillance of a				
drug is carried or	ut:					
a. Phase I		b. Phase II				
c. Phase III		d. Phase IV				
7. Synaptic transmi	itter in the autonom	nic ganglion is:				
a. Adrenaline		b. Dopamine				
c. Acetylchol		d. Noradrenaline				
8. All are choliners	ric agents EXCEPT					
a. Galantami		b. Donepezil				
c. Tacrine	The The	d. Memantine				
	03/1					
9. Methylphenidate	e is drug of choice f	for:				
	compulsive disorde					
	tention deficit hype					
c. Enuresis	S 21	ŕ				
d. Autism						
10. All of the follow	ing are therapeutic	uses of prazosin, except:				
<ol> <li>Peripheral</li> </ol>	a. Peripheral vascular disease					
<ul> <li>b. Phaeochroi</li> </ul>	b. Phaeochromocytoma					
c. Lupus Erythematosus						
d. Scorpion st	ting					



Complex seizures     Myoclonic seizures					
12. Neural tube defect is an ad	verse effect of				
a. Valproate	b. Phenytoin				
c. Diazoxide	d. None				
13. Anti-Parkinsonism drug th	13. Anti-Parkinsonism drug that is a selective COMT inhibitor:				
a. Entacapone	b. Ropinirole				
c. Pergolide	d. Pramipexole				
<ol> <li>Drug useful in malignant h</li> </ol>	14. Drug useful in malignant hyperthermia is:				
a. Halothane	b. Succinyl choline				
c. Dantrolene	d. Haloperidol				
	, 0.				
15. Which of the following dru	15. Which of the following drug is not an opioid agonist?				
a. Heroin	b. Ketamine				
c. Methadone	d. Codeine				
	75				
16. Which of the following inc	16. Which of the following increases uric acid excretion?				
a. Allopurinol	b. Aspirin				
c. Colchicine	d. Probenecid				
. 30	The state of the s				
17. Most common cause of Mo	17. Most common cause of Mobius syndrome is use of which of the				
following drug in pregnance	. (*)				
a. Misoprostol	b. Thalidomide				
c. Methotrexate	d. Dinoprostone				
18. Gastric lavage is contraind	icated in :				
a. Salicylate poisoning					
b. Kerosene poisoning					
c. Morphine poisoning					
d. Organophosphate po					
19. For preanesthetic medicati	on all of the drugs can be used except:				
a. Diazepam	<ul> <li>b. Glycopyrrolate</li> </ul>				
<ul> <li>c. Metoclopramide</li> </ul>	d. Phenobarbitone				



Antihistaminic used for motion sickness is:

a. Cetirizine

b. Meclizine

c. Promethazine

d. Fexofenadine

### Q.2 Answer in short [any five]:

[3\*5=15]

- a. Write a note on rational use of medicines.
- What is microsomal enzyme induction? Describe possible consequences of microsomal enzyme induction with examples.
- Explain potency and efficacy with the help of a suitable diagram.
- Mention the uses of anticholinergic drugs.
- e. Discuss the side effects and contraindications to propranolol.
- Give pharmacological basis for use of adrenaline in anaphylactic shock.

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

[5\*3=15]

- Describe mechanism of action and adverse effects of any 3 drugs from different groups used in treatment of glaucoma.
- Describe the process of synthesis, storage, release and uptake of catecholamine.
- Classify anti-cholinesterases. Describe the pharmacotherapy of organophosphorus poisoning.
- Define Adverse drug reaction and pharmacovigilance. Describe teratogenicity in detail.

## Q.4 Case based questions:

[10\*1=10]

A 35-year-old man complains of breathlessness for 1 month which is increasing in frequency with 3-4 attacks per week. Breathlessness is seen while doing his day-to-day activities. Patient is provisionally diagnosed as moderate persistent bronchial asthma. He is prescribed Metered dose inhaler of formoterol and budesonide.



a. What is the advantage of combining formoterol and budesonide in this patient?
b. Mention the advantages of giving the above drugs in metered dose inhaler as compared to oral route.
c. Which side effects can occur in this patient due to the prescribed drugs?
d. If this patient brought to emergency department as 'status
4

### Section II

### Q.5 Answer in short [any five]:

[3\*5=15]

- a. Write a note on bioavailability of a drug.
- Classify drugs used in cough. Describe dextromethorphan in short.
- Describe the treatment of methyl alcohol poisoning.

asthamaticus' what treatment should be given?

- d. Enumerate second generation antihistaminics. Mention their uses.
- e. Write a note on prophylaxis of migraine:
- Enlist selective serotonin reuptake inhibitors and their therapeutic uses.

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

[5\*3=15]

- Classify Nonsteroidal anti-inflammatory drugs (NSAIDs).
   Describe uses and adverse effects of aspirin.
- Compare and contrast benzodiazepines and barbiturates.
- c. Enumerate commonly used drugs for generalized tonic clonic seizure. Describe briefly the mechanism of action and adverse effects of any two of them.
- d. Classify antirheumatoid drugs. Describe mechanism of action and adverse effects of any three DMARDS (Disease modifying antirheumatic drugs).





# Q.7 Case based questions:

10\*1=10

- ➤ A 30 years old man had a gradual onset of delusions and auditory hallucinations. He was diagnosed as schizophrenia by a psychiatrist and started him on tab. Haloperidol 2mg twice daily. A few weeks later although he improved clinically, he developed stiffness and rigidity of upper and lower limbs. He was diagnosed as drug induce parkinsonism.
- a) Explain the basis of drug induced parkinsonism. Which drug should be Started in this patient for treatment of drug induced parkinsonism?
  Why?
- b) Describe the adverse effects of the drug used for this patient.
- c) Enumerate antipsychotic drugs which have less chances of drug induced Parkinsonism and can be used in this patient.

WWW.FirstRanker.com

