Code	No.	Sv	mbol Number:	Inv	vigilator's S	Sign:			Sı	ıperint	endent':	s Sig	n:				
			mbol No. in Words:							1		0					
•	-		e and Level: Bachel				Year	/Par	t: II,	/I							
Program: Bachelor of Pharmacy Subject: BP302 Pharmacology I					Level: Bachelor Time: 3 Hours							F.M.: 50 P.M.: 25					
	i Ii		swers should be given by gh can be done in the mo			er Sheet.											
	Iii	Maxir	num time of 20 minutes	within the tota	l time is giv	en for th	is gro	ир.									
		Group A	A (Multiple Choice Que	stions)							10×1=1	0]					
	1.	If drug h	ave very small volume of distrib	oution it is likely the	at the drug												
		a. Not	bioavailable	c. has short bio	ological half li	fe											
		b. wil	l not be effective	d. does not acc	umulate in va	rious tissue	and org	gan									
	2.	Which of															
		a. Rea	actions which occur in the blood	l supply.													
			ections which add a polar functi	** *	σ.												
			actions which add a polar molec		-	present on a	drug (	or one	of its	metaboli	tes						
			actions which occur in the gut w		5 1 5	1	0										
	3.		rption of drugs like (quaternary		unds sulphon	ic acid) are	exnlair	ed by									
	٠.		pair transport	ummemum tempe	_	tive transpor	-	ica oj									
			ve transport			cilitated diffi											
	4.		s measure of	u. i ac	Zintated diffi	131011											
	ч.	•															
		•	ability of an agonist that is bot	-	lular change												
			tightness with which a drug bi	•													
			agent which activates a receptor	r to produce an effe	ect in the oppo	site direction	1										
	_		ne of the above.														
	<ol> <li>During an ophthalmic surgical procedure, the surgeon wanted to constrict the pupil using a miotic drug. However, he accide that caused dilation of the pupil (mydriasis). Which drug was most likely used?</li> <li>a. Acetylcholine</li> <li>c. Tropicamide</li> </ol>										he accide	ntally	used	anoth	er dru	g	
			ocarpine				d.	Betha									
	6.	Which of a. α1 Ago b. α2 Ago		ergic agents has util	ity in the man	agement of l	c. β1	ension Agoni Agonis	st								
	7.	<ul><li>a. Tre</li><li>b. Pro</li><li>c. Car</li></ul>	The following is correct regard atment with β-blockers should pranolol is a cardioselective β-blockers worsen clockers decrease peripheral results.	not be stopped abrui blocker. asthma.													
	8.	Daniahan	1 - 1			44:	1 41		1		4 1 1 1	.1:	1. 11.	1	: 41		
	ο.	therapy?	ıl adverse effects of levodopa, i	ncluding nausea, ny	potension, an	d cardiac ari	nyınm	ias, ca	n be d	ıımınısne	a by inclu	aing v	vnicn	arug	in the		
		a. Am	antadine					Carbi	•								
		b. Roj	pinirole le				d.	Entac	a								
	0	_															
	9.		ntidepressant is the most sedating propion	ıg?			c.	Doxe	nin.								
			oxetine				d.	Venla		)							
	- 1-0	user of an a. Dia	ar-old woman is admitted to the ny medications or illicit drugs. V zepam nelteon	e emergency room a Which treatment co	after an accide uld be used to	ental overdos reverse the	se of al effect c. d.	prazol of the a Fluma Nalox	alpraz zenil	he is unc olam ove	onscious a erdose?	and no	t-cons	sidered	da⊤eg	gula	
							Mul	iple	Cho	ice Qu	estions <sup>4</sup>	' Ans	swer	She	et		
de No.			Marks Secured:			1	(A)	B	<u>C</u>	(D)		6.	A	B	©	(C	
			 In Words:			1.											
Correc	_		Examiner's Sign:			2.	<u>A</u>	<u>B</u>	<u>©</u>	<u>D</u>		7.	<u>A</u>	<u>B</u>	<u>©</u>	<u>D</u>	
	C		Scrutinizer's Marks:			3.	(A)	B	(C)	(D)		8.	(A)	B	(C)	(C	

Incorrected Fill

In Words: \_\_

Scrutinizer's Sign: \_\_\_\_\_ Date: \_\_\_

4. (A) (B) (C) (D)

5. (A) (B) (C) (D)

9. (A) (B) (C) (D)

10. (A) (B) (C) (D)

#### MANMOHAN TECHNICAL UNIVERSITY

### Office of the Controller of Examinations

Budiganga- 4, Morang, Koshi Province Nepal

Faculty: Medicine and Allied Health Sciences
Year/Part: II/I

Program: Bachelor of Pharmacy Level: Bachelor F.M.: 50 Subject: BP302 Pharmacology I Time: 3 Hours P.M.: 25

- ✓ Group A contains Multiple Choice Questions of 5 marks.
- $\checkmark$  Candidates are required to give their answers in their own words as far as practicable.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

#### **Group B (Problem-Based Question)**

 $[1 \times 10 = 10]$ 

- 1. Mr. AB, a 22-year-old, pharmacy student came to the local Pharmacy last week with a 7-day prescription for diazepam 10 mg tablets, one to be taken at night. The drug was prescribed to him by his Doctor because of insomnia that Mr AB was suffering five weeks ago. In fact, although he is typically supposed to wake up at 7.00 am to attend his lectures, at 4.00 am he is already fully awake and find it difficult to fall asleep. During the day, he feels very tired, anxious and tearful. It is now 3 days since you dispensed his prescription and the patient has returned to you because he claims he is still not able to sleep properly.
- i. How is insomnia defined?

(1)

ii. What are the risk factors for its development?

- (1)
- iii. What group of drugs does diazepam belongs to? What are other drugs that are associated with this group? (2)
- iv. What is the mechanism of action of diazepam in the treatment of insomnia? (3)
- v. What are the side-effects of diazepam? (1)
- vi. What counseling could you give Mr. AB to help try and resolve the issue? (2)

# Group C (Long Answer Questions: Attempt Any Four) [4×5=20]

- 1. What are the different mechanisms of Drug Transport? Explain
- 2. Define Metabolism. Explain different factors affecting drug metabolism
- 3. Write down Mechanism of Action, Side effect, contraindication and therapeutic use of Atropine.
- 4. Define Drug Interaction. Explain various types of Drug Interaction.
- 5. Define and classify Antiepileptic drug. Write down the Mechanism of action of Phenytoin.

## **Group D (Write Short Notes: Any Five)**

 $[5 \times 2 = 10]$ 

- 1. Define Bioavailability and its type
- 2. What do you mean by Tolerance and Dependence?
- 3. What do you understand by the term Efficacy and Potency?
- 4. Write down the mechanism of action of Morphine
- 5. Define Sedative and Hypnotic with examples
- 6. What is the significance of combining Levodopa with Carbidopa?

•