Total No. of Questions: 3 *Total No. of Printed Pages:2*

Enrollment No.....

Faculty of Pharmacy

End Sem (Even) Examination May-2022

PY3CO16 Pharmacology -I

Programme: B. Pharma Branch/Specialisation: Pharmacy

Duration: 3 Hrs. **Maximum Marks: 75**

Note: All questions are compulsory. Internal choices, if any, are indicated.

Q.1	i.	Give the names of two main division of Pharmacology.	**2**
	ii.	The time between drug administration and beginning of therapeutic effect is known as _____.	**2**
	iii.	Give two basic types of drug action.	**2**
	iv.	Name two functional proteins that are targets of drug actions.	**2**
	v.	Peripheral nervous system is divided into _____ &_____.	**2**
	vi.	Which type of nicotinic receptors are present on ganglion?	**2**
	vii.	Write Full form of GABA?	**2**
	viii.	Glutamine is a precursor substance for the synthesis of _____ in neuron.	**2**
	ix.	_____ is an example of first-generation anti-psychotics drug (High potency).	**2**
	x.	Write full form and uses of MAO.	**2**
Q.2		Attempt any two:	
	i.	Explain drug tolerance, drug dependence & drug addiction.	**10**
	ii.	Describe GPCRs and intracellular receptors in detail.	**10**
	iii.	(a) Explain plant and animal sources of drugs.	**5**
		(b) Define competitive antagonist. Explain affinity, potency, efficacy.	**5**
Q.3		Attempt any seven: Two questions from each section is compulsory.	
		Section - A	
	i.	Difference between sympathetic and parasympathetic nervous system.	**5**

P.T.O.

	ii.	Explain neurohumoral transmission and co-transmission.	**5**
	iii.	What is Neurotransmitter? Explain classification of neurotransmitters.	**5**
		Section - B	
	iv.	Describe GABA and its role in CNS. Explain synthesis of GABA in neuron.	**5**
	v.	Define general anaesthesia. Give classification of general anaesthetics.	**5**
	vi.	Define epilepsy. Explain mechanism of action of glutamate receptor blockers.	**5**
		Section - C	
	vii.	Define anti-depressants. Explain mechanism of action of MAO inhibitors.	**5**
	viii.	Explain opioids analgesics and its classification.	**5**
	ix.	Define CNS stimulants. Explain mechanism of action cocaine.	**5**

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Marking Scheme
PY3CO16 Pharmacology -I

Q.1	i.	Any two division	(1 mark * 2)	**2**
	ii.	Onset of Drug action		**2**
	iii.	Any two drug actions	(1 mark * 2)	**2**
	iv.	Any two functional proteins that are targets of drug actions	(1 mark * 2)	**2**
	v.	Somatic nervous system & Autonomic nervous system		**2**
	vi.	Nn type		**2**
	vii.	Gamma Aminobutyric Acid		**2**
	viii.	GABA		**2**
	ix.	Any one example		**2**
	x.	Mono amine oxidase		**2**

Q.2		Attempt any two:		
	i.	Drug tolerance	4 marks	**10**
		Drug dependence	3 marks	
		Drug addiction	3 marks	
	ii.	GPCRs	5 marks	**10**
		Intracellular receptors	5 marks	
	iii.	(a) Plant sources of drugs	2.5 marks	**5**
		Animal sources of drugs	2.5 marks	
		(b) Competitive antagonist	2 marks	**5**
		Affinity	1 mark	
		Potency	1 mark	
		Efficacy	1 mark	

Q.3 Attempt any seven: Two questions from each section is compulsory.

Section - A

i.	Any five differences	(1 mark * 5)	**5**
ii.	Neurohumoral transmission	3 marks	**5**
	Co-transmission	2 marks	
iii.	Neurotransmitter	2 marks	**5**
	Classification of neurotransmitters	3 marks	

Section - B

iv.	GABA and its role in CNS	2 marks	**5**
	Synthesis of GABA in neuron	3 marks	
v.	General anaesthesia	2 marks	**5**
	Classification of general anaesthetics	3 marks	
vi.	Epilepsy	2 marks	**5**
	Mechanism of action of glutamate receptor blockers.	3 marks	

Section - C

vii.	Anti-depressants	2 marks	**5**
	Mechanism of action of MAO inhibitors	3 marks	
viii.	Opioids analgesics	2 marks	**5**
	Its classification	3 marks	
ix.	CNS stimulants	2 marks	**5**
	Mechanism of action cocaine	3 marks	

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