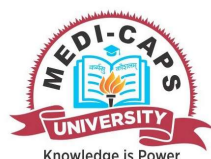


Total No. of Questions: 3

Total No. of Printed Pages: 2

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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
- Give the names of two main division of Pharmacology. 2
 - The time between drug administration and beginning of therapeutic effect is known as _____. 2
 - Give two basic types of drug action. 2
 - Name two functional proteins that are targets of drug actions. 2
 - Peripheral nervous system is divided into _____ & _____. 2
 - Which type of nicotinic receptors are present on ganglion? 2
 - Write Full form of GABA? 2
 - Glutamine is a precursor substance for the synthesis of _____ in neuron. 2
 - _____ is an example of first-generation anti-psychotics drug (High potency). 2
 - Write full form and uses of MAO. 2

- Q.2 Attempt any two:
- Explain drug tolerance, drug dependence & drug addiction. 10
 - Describe GPCRs and intracellular receptors in detail. 10
 - (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

- Difference between sympathetic and parasympathetic nervous system. 5

P.T.O.

- Explain neurohumoral transmission and co-transmission. 5
- What is Neurotransmitter? Explain classification of neurotransmitters. 5

Section - B

- Describe GABA and its role in CNS. Explain synthesis of GABA in neuron. 5
- Define general anaesthesia. Give classification of general anaesthetics. 5
- Define epilepsy. Explain mechanism of action of glutamate receptor blockers. 5

Section - C

- Define anti-depressants. Explain mechanism of action of MAO inhibitors. 5
- Explain opioids analgesics and its classification. 5
- Define CNS stimulants. Explain mechanism of action cocaine. 5

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		2
			(1 mark * 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	
