Total marks: 75

Duration: 3 Hrs

N.B.: 1. All questions are compulsory 2. Figures to right indicate full marks Q. 1. Multiple Choice Questions (MCQs) (Answer all the questions). The advantages of oral route include 1. It can be given to unconscious patient b. Medicament needs to be sterile a. It is noninvasive c. It is expensive c. 2 Agonist is _ a. An agent which activates a receptor to reduce submaximal effect but antagonizes the action of a full agonist An agent which prevents the action of an agonist on a receptor or the subsequent b. response, but does not have any effect of its own c. An agent which activates a receptor to produce an effect in the opposite direction to that of the agonist d. An agent which activates a receptor to produce an effect similar to that of the physiological signal molecule The extent of separation of DRCs of a drug for different effects is a measure of its **3.** Safety a. b. Potency Therapeutic effect d. Selectivity c. The receptor that mediates its action in milliseconds is_ Ion channel receptors **GPCR** a. b. Transmembrane enzyme-linked receptor d. Receptors regulating gene expression 5. Prazosin is a Alpha 2 selective blocker Beta 1 selective blocker b. a. Alpha 1 selective blocker d. Nonselective blocker Which of the following statement is correct for Atropine? 6. a. It produces miosis It is safer in elderly males b. It is used in the treatment of Glaucoma c. d. It is the specific antidote for anti-ChE poisoning 7. The is a preanesthetic medicine **Opioids** Antipsychotics b. a. Antidiarrhoeal d. Antiepileptics 8. The mechanism of disulfiram is Aldehyde dehydrogenase inhibitor b. Aldehyde dehydrogenase inducer a. Alcohol dehydrogenase inhibitor Alcohol dehydrogenase inducer d.

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9.	The drug is preferred in tre	eatment of ma	unia 🔻 🔊		
a.	Moclobomide	b. 2	Propranolol		
c.	Lidocaine	d.	Lithium		
10.	The only neuroprotective agent usef	ul in treatmer			
a.	Monoamine oxidase inhibitor	b.	Monoamine oxidase B inhibitor		
c.	Catechol O methyl transfer inhibitor	d.	Dopa decarboxylase inhibitor		
11.	The transport that carries a solute ac gradient is	ross the mem	brane against its concentration		
a.	Facilitated diffusion	b.	Active transport		
c.	Passive diffusion	d.	Filtration		
12.	Alteration of the action of one drug change in its concentration is called				
a.	Pharmacokinetic interaction	b.	Tachyphylaxis		
c.	Pharmacodynamic interaction	d.	Adverse drug reaction		
13.	At the muscle end-plate, d-tubocurar	rine reduces t	he:		
a.	Number of Na+ channels				
b.	Duration for which the Na+ channel	s remain oper	n of the second		
c	Ion conductance of the open Na+ ch	annel			
d.	Frequency of Na+ channel opening	13)			
14.	Monoamine oxidase exerts	side effe	ct A		
a.	Serotonin syndrome	side site	Wine reaction		
c.	Brain zaps	d.	Postural hypotension		
9			20 P		
15.	Buspirone acts mainly acts on	receptor			
a.	5HT S	b.	GABA		
c.	Adrenaline	åd.	Dopamine		
16.	This class of drugs specifically stime	ulate respirati	ion.		
a.	Convulsants	b. 8	Psychostimulants		
c.	Analeptics	d.	Cerebroactive drugs		
	3, 2, 2, 2, 2,		Det .		
17.	An example of Phase II reaction is_	.00			
a. <	Cyclization	b.	Glucuronide conjugation		
c.	Hydrolysis	d.,	Reduction		
9V,					
18.	An unwanted effect of a drug that oc	ccurs at therai	peutic dose is called		
a.	Intolerance	b.	Secondary effect		
c.	Toxic effect	d.	Side effect		
9	Tokke Officer	969	Side effect		
19.	Ethanol is used in methanol poisoning	ng because it			
a.	Antagonises the actions of methanol		 ;		
b.	Stimulates the metabolism of methanol and reduces its blood level				
c.	Inhibits the metabolism of methanol				
d.	Replenishes the folate stores deplete	_			
u.	repremishes the rotate stores deplete	a by memano	л		

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<i>2</i> 0.	Field block anestnesia is ai	type of local anestnetic technique				
a.	Infiltration anesthesia	b.	Surface anesthesia			
c.	Conduction block anesthesia	d.	Spinal anesthesia			
2.	Long Answers (Answer 2 out of 3)			20		
A.	What are the different principles of drug action? Explain the signal transduction mechanism for transmembrane enzyme linked and JAK-STAT binding receptors.					
В.	Define sympathomimetics. Classify them and add a detailed note on the pharmacology of Adrenaline.					
C.	Classify antiepileptics. Discuss in deta and valproic acid	ail mechan	nism and adverse effect of phenyto	oin		
3.	Short Answers (Answer 7 out of 9)		De Solvin Tier	35		
A.	What is excretion? Explain the renal excretion in detail.					
В.	Enlist various factors modifying drug actions. Explain any two in detail.					
C.	Write a note on receptor antagonism.					
D.	Discuss the mechanism of action, uses, and side effects of Beta blockers.					
Ε.	Classify local anaesthetics. Discuss its mechanism of action.					
F.	Discuss the factors governing the induction and recovery of volatile anesthetics					
G.	Compare and contrast between benzodiazepines and barbiturates.					
Н.	Discuss the pharmacological actions of Morphine.					
I.	Give an account of anticholinesterase	△ V . ■				
