Q.P. Code:136005	Reg. No
4	

First Professional B.S.M.S Degree Supplementary Examinations January 2024

Udai Thathuvam (Physiology) Paper II (SIDUG-UT)						
	(202	21 Scheme)				
Time: 3 hrs • Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space • Answer all parts of a single question together • Leave sufficient space between answers • Draw table/diagrams/flow charts wherever necessary						
Ti tw	ultiple Choice Questions ne Answers to MCQ questions (Q.No. vo writing sheets (ie Page No. 3 & 4) Which is taste center		(20x1=20) ten continuously on the first			
	a) Lower part of hypothalamus	b) Lower part of po	st central gyrus			
	c) Upper part of medulla	d) Upper part of po	•			
ii.	i. The chemical that Inhibits the impulses of pain sensation in posterior grey horn of spinal					
	cord is	' '	3 , .			
	a) Serotonin b) Histamine	c) Dopamine	d) Acetyle choline			
iii.	Oxygen carrying capacity of one gr		, ,			
	a) 1ml/g b) 2.34ml/g	c) 1.34ml/g	d) 1.04ml/g			
iv.	The volume of air remaining in lung	gs after forced expiration is	s called as			
	a) Functional residual capacity		b) Residual volume			
	c) Tidal volume	d) Vital capacity				
٧.	Which one is low threshold substar	nce				
	a) Uric acid b) Creatinine	c) Aminoacid	d) Vitamins			
vi.	Nerve of emptying in the urinary bladder is					
	a) Pudendal nerve	b) Sympathetic ner	b) Sympathetic nerve			
	c) Para sympathetic nerve d) Urethral nerve					
vii.	The condition characterized by the lack of sperm in semen is called					
	a) Oligospermia	b) Azoosspermia				
	c) Hypospermia	d) Aspermia				
viii.	The process by which spermatids b	pecome matured spermato	ozoa is			
	a) Spermiation	b) Spermatogenesi	S			
	c) Spermigenesis	d) Oogenesis				
ix.	Insulin secretion is increased by wh	nich substance				
	a) Gastrin b) Noradrenal	lin c) Serotonin	d) Somatostatin			
Χ.	Hormone secreted by adrenal med	ulla				
	a) Dopamine b) Aldosterone	,	d) Cortisol			
хi.	The condition for excessive secretic	•				
	a) Acalasia cardiac	h) GERD				

d) Xerostomia

c) Zollinger Ellison syndrome

χii.	Choleretic action means			
	a) Secretion of bile from liver	b) Release of bills from live	er	
	c) Secretion of bile from gall blader	d) Release of bile from ga	ll bladder	
xiii.	Repolarization of muscles is caused by			
	a) Sodium channel opened	b) Sodium channel closed		
	c) Influx of potassium channel	d) Na, K pump		
xiv.	Which type of immunity developed by T	cells		
	a) Innate immunity	b) Humoral immunity		
	c) Cell mediated immunity	d) Passive immunity		
XV.	The presence of abnormal hemoglobin is	called		
	a) Aplastic anemia	b) Thalassemia		
	c) Hemorrhagic anemia	d) Normocytic anemia		
xvi.	Extracellular molecule enter through one	side of the cell is called		
	a) Exocytosis b) Phagocytosis	c) Transcytosis	d) Pinocytosis	
xvii.	Which one is not a function of peroxisom	es		
	a) Beta oxidation	b) Detoxification		
	c) Degrade purine to uric acid	d) Inhibit the gluconeogen	esis	
xviii.	Significance of isometric contraction of ve	entricle		
	a) Increased ventricular pressure	b) Closure of semi lunar va	alve	
	c) Increased atrial pressure	d) Decreased ventricular p	pressure	
xix.	Causes of third heart sound			
	a) Closure of aortic valve	b) Closure of tricuspid valv	/e	
	c) Rushing of blood into ventricle	d) Contraction of atrial mu		
XX.	Continues and partial contraction of muse	_		
	a) Muscle power b) Muscle tone	c) Muscle reflex	d) Rigor mortis	
Shor	t Answer Questions		(8x5=40)	
2. D	escribe acidosis, alkaloids			
3. E	xplain the generation of action potential ar	nd resting membrane poten	tial	
	varian changes during menstrual cycle			
5. R	enal auto regulations			
6. H	ow the lung prevents from collapsing tend	ency		
7. Pa	athophysiology of myasthenia gravis			
8. P	hysiology of sleep			
9. E	xplain the pathway for light reflex			
Long	Answer Questions		(4x10=40)	
10.W	hat is haemostasis and explain in detail th	ne stages of it		
	xplain following headings	ŭ		
	Regulation of pancreatic secretion			
,	Sequence of events during deglutition			
	hysiological action, regulation and effect o	of altered secretion of Neuro	ohypophysis	
	ow the arterial blood pressure regulated b			
