Enrollment No: _____ PARUL UNIVERSITY FACULTY OF PHARMACY

FACULTY OF PHARMACY B. Pharm., Winter 2017 - 18 Examination

Seme Subje Subje	ect Name: Human Anatomy and Physiology-I	Date: 08/01/2018 Time: 10:00 am to 1:00 pm Total Marks: 75	
Instr	uctions:		
1. Fig	gures to the right indicate maximum marks.		
2. Ma	ake suitable assumptions wherever necessary.		
01	Multiple Chaige Questions (MCOs)		(20)
Q.1	Which one is the example of controlatoral in hody?		(20)
1.	a) According and descending solar	h) Call bladden and according calor	
	a) Ascending and descending colon	d) Demonstrate and liver	
2	Colle of with alial tissues that line the storesch intesti	d) Pancreas and liver	
۷.	c) Tight in stigns	h) Adhering impetion	
	a) Fight junctions	b) Adherens junction	
	c) Hemidesmosomes	d) Desmosomes	
3.	is the largest organ of the body.		
	a) Leg	b) Ear	
	c) Liver	d) Skin	
4.	Urinary bladder made up of		
	a) Stratified columnar epithelium	b) Transitional epithelium	
	c) Simple columnar epithelium	d) Stratified cuboidal epithelium	
5.	The total number of axial bones in the human body.		
	a) 206	b) 126	
	c) 80	d) 75	
6.	The role of troponin protein in muscle contraction is		
	a) Prime contractile element of muscle	b) Non-contractile and elastic in nature	
	c) Play role in sensitizing actin and myosin	d) Takes up calcium ion from sarcoplasm	
7.	Which one of the follow is example of cartilaginous jo	pints?	
	a) Between vertebrae of spine	b) Teeth held within bony socket	
	c) Between elbow and shoulder	d) Femur and Hip bone	
8.	Which cells of the neuroglia involved in myelination p	process of neuron in CNS?	
	a) Schwann cells	b) Ependymal cells	
	c) Oligodendrocyte	d) Microglia	
9.	Which Nerve fiber can conduct nerve impulses (action	n potentials) at the highest speeds?	
	a) D fiber	b) C fiber	
	c) A fiber	d) None of the above	
10.	Gustatory receptor cells trigger nerve impulses in crar	nial nerves	
	a) VII, IX, X	b) IV, V	
	c) I, II, III	d) X, V	
11.	occurs between local cells where the signa	als elicit quick responses and last only a short	
	amount of time.		
	a) Endocrine signaling	b) Autocrine signaling	
	c) Paracrine signaling	d) None of the above	
12.	Increase in intra ocular pressure within eye is called as	S	
	a) Cataract	b) Tinnitus	
	c) Glaucoma	d) Vertigo	
13.	Which of the following hormones are secreted by post	terior pituitary gland?	
	a) Oxytocin and vasopressin (ADH)	b) Adrenalin and thymosin	
	c) Estrogen and Insulin	d) Calcitonin and thyroxine	
14.	which of the following hormone stimulate synthesis of	or $Na+/K+$ ATPase in the cell?	
	a) Insulin	b) Follicle stimulating hormone	
	c) Thyroid	a) Aldosterone	

15	Which hormone of Adrenal Cland Inhibit white h	load calls that participate in inflammatory			
13.	responses ²				
	a) Glucocorticoid	b) Mineralocorticoid			
	a) Androgon	d) A dranalina			
16	How many pairs of Spinal Nerves are present in h	uman body?			
10.	a) 12	b) 11			
	c) 31	d) 5			
17	The Cranial Nerve that connected with ear function	u, s			
17.	a) Ontic	h) Vestibulocochlear			
	a) Optic	d) Vagus			
18	The period of time after an action potential begins	u) vagus during which an excitable cell cannot generate			
10.	another action potential in response to a normal threshold stimulus is called				
	a) Graded potential	b) Posting membrane potential			
	a) Defractory period	d) None of the above			
10	Which types of ion channels are involved in gener	a) None of the above			
19.	a) Voltage geted No. & K ion channel	b) Machanically gated No. & K ion channel			
	a) Voltage gated Na & K ion channel	d) Leakage ion channels			
20	C) Ligand gated Na & K Ion channel	d) Leakage fon channels			
20.	a) Sect of Intelligence	h) Emotional brain			
	a) Seat of Intelligence	d) Norse of the choice			
0.2	c) Blood brain barrier Long Angewong (ang $2 \operatorname{cut} af 2$)	a) none of the above	(20)		
Q.2	Long Answers (any 2 out of 3)				
1.	Explain in detail about mitosis and meiosis process of cell cycle.				
2.	Write in detail about pancreas as endocrine gland along with its hormones role in maintaining blood				
2	glucose nomeostasis.	······································			
<i>3</i> .	Elaborate on anatomy and physiology of Cerebrum and Hypothalamus.				
Q.3	Short Answers (any 7 out of 9)				
1.	Define Homeostasis and explain about Negative feedback mechanism of homeostasis.				
2.	Explain about vesicle mediated transport system functioning across plasma membrane.				
<i>3</i> .	Classify connective tissue and explain about blood as liquid connective tissue.				
4.	Explain neuromuscular junction along with schematic diagram.				
Э. С	Classify neurotransmitter and describe about each.				
6. 7	Explain synthesis and circulation pathway of cerebro spinal fluid in CNS.				
1.	Explain reflex activity with example.				

- 8. Differentiate in between sympathetic and parasympathetic system of ANS.
- 9. Explain anatomy and physiology of ear.