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(1M)

Code No: BP101T PCI SET - 1

I B. Pharmacy I Semester Regular/Supplementary Examinations, February - 2020 HUMAN ANATOMY & PHYSIOLOGY-I

		HUMAN ANATOMY & PHYSIOLOGY-I					
Tin	ne: 3 ho		rks: 75				
		Note: 1. Question paper consists of three parts (Part-I, Part-II & Part-III) 2. Answer ALL (Multiple Choice) Questions from Part-I 3. Answer any TWO Questions from Part-II 4. Answer any SEVEN Questions from Part-III					
<u>PART –I</u>							
1.	(i)	In human cell, which organelle stores ca ²⁺ (a) Mitochondria (b) Nucleus (c) Sarcoplasmic reticulum (d) None of the above	(1M)				
	(ii)	Power house of the cell (a) Mitochondria (b) Nucleus (c) Sarcoplasmic reticulum (d) None of the above	(1 M)				
	(iii)	Which matured cells in the blood do not have a nucleus? (a) RBC (b) WBC (c) Platelets (d) None of the above	(1M)				
	(iv)	Which of the following is flexible connective tissue that is attached to bones at the joints? (a) Nerve (b) Cartilage (c) Epithelial (d) Muscle	(1 M)				
	(v)	The principal extracellular cation is (a) Na+ (b) Ca+ (c) K+ (d) Cl-	(1M)				
	(vi)	Which blood cell function as defense mechanism against bacteria (a) RBC (b) WBC (c) Platelets (d) None of the above	(1M)				
	(vii)	Name the basic structural and functional unit of the nervous system. (a) Neuroglia (b) Glial cells (c) Neurons (d) Perikaryon	(1M)				
	(viii)	Which of the following is NOT the component of the PNS? (a) Elastic connective tissue (b) Cranial nerves (c) Spinal nerves (d) Ganglia	(1 M)				
	(ix)	What is the main function of the rods in the eye? (a) depth perception (b) color vision (c) vision in dim light (d) accommodation for near vision	(1M)				
	(x)	Receptors for hearing are located in the (a) cochlea (b) semicircular canals (c) tympanic membrane (d) vestibule	(1 M)				
	(xi)	In ECG P wave represents (a) Ventrical depolarization (b) Atrial repolariation (c) Atrial depolarization (d) None of the above	(1 M)				
	(xii)	Which part of the intrinsic conduction system starts the heart beat (a) SA node (b) AV node (c) The Bundle of His (d) all of the above	(1M)				
	(xiii)	The muscular layer of the heart that is responsible for pumping is the (a) Endocardium (b) Epicardium (c) Myocardium (d) Mucous membrane	(1M)				
	(xiv)	Which would be indicative of hypotension? (a) 120/80 (b) 180/140 (c) 80/60 (d) 135/120	(1M)				

(a) Brachial artery (b) Jugular vein (c) Carotid artery (d) Popliteal vein

pulse can check at neck using the



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	(x	vi)	Name the longest and heaviest bone of the (a) Femur (b) Fibula (c) Tibia (d)Ilium	body?	(1 M)				
	(XY	vii)	Name the only movable bone in the skull of (a) Ethmoid bone (b) Mandible bone (c) N		(1M)				
	(xv	viii)	How many types of Joints are present in ou (a) 2 (b) 3 (c) 4 (d) 5	r body?	(1 M)				
	(x	ix)	Lymph nodes are found in (a) neck region (b) axilla (c) groin	(d) All of Above	(1M)				
	(x	(x)	Which blood type is the universal recipient (a) A (b) B (c) AB (d) O	for blood transfusions?	(1 M)				
PART -II									
2.	a)	Ex	plain in detail structure and functions of cell	with neat labelled diagram.	(5M)				
	b)	Cl	assify Tissues with examples.		(5M)				
3.	a)	W	rite the Structure and functions of ear.		(5M)				
	b)	De	fine neuromuscular junction and explain ph	ysiology of muscle contraction	on. (5M)				
4.	a)		rite the importance of the left ventricular in e of valves in heart.	pumping of blood, and expl	ain the (5M)				
	b)	Ex	plain any two blood disorders.		(5M)				
PART -III									
5.		W	rite a short note on cellular signaling.		(5M)				
6.		Ex	plain in detail nerve action potential.		(5M)				
7.		De	efine coagulation? Explain detailed coagulation	on mechanism.	(5M)				
8.		W	rite the significance of Reticulo endothelial	system.	(5M)				
9.		Ex	plain functions of the lymphatic system.		(5M)				
10.		W	rite the differences between sympathetic and	parasympathetic nervous sys	stem. (5M)				
11.		Ex	plain in detail hypertension and angina pect	oris.	(5M)				
12.	•	W	rite a short note on spinal nerves.		(5M)				
13.		Ex	plain the conduction system of heart.		(5M)				