Code No: BP101T (PCI

SET - 1

I B. Pharmacy I Semester Regular/Supplementary Examinations, February - 2019 HUMAN ANATOMY & PHYSIOLOGY-I

Time: 3 hours Max. Marks: 75

3. Answer any **TWO** Questions from **Part-II**4. Answer any **SEVEN** Questions from **Part-III**

Note: 1. Question Paper consists of three parts (**Part-I**, **Part-II & Part-III**) 2. Answer **ALL** (Multiple Choice) Questions from **Part-I**

PART -I 1. (i) The principal intracellular cation is (1M)(a) Na^{+} (b) Ca^{+} (c) K^{+} (d) Cl^{-} (ii) Haematopoiesis means formation of (1M)(a) Erythrocytes (b) Lymphocytes (c) Monocytes (d) All of the above (iii) Engulfing of bacteria by white blood cells is called as (1M)(a) Phagocytosis (b) Pinocytosis (c) Exocytosis (d) Endocytosis (iv) The tissue that lines and covers the bone is (1M)(a) Epithelial (b) Muscle (c) Nervous (d) Connective (v) One of the following is not a part of axial skeletal system (1M)(a) Limbs (b) head (c) Vertebra (d) Heart Set of ions necessary for chemical events of muscle contraction (vi) (1M)(a) Na⁺ & K⁺ (b) Ca⁺ & Mg⁺ (c) Na⁺ & Ca⁺ (d) Na⁺ & Mg⁺ The joints present in the Knee (vii) (1M)(a) Pivot (b) Hinge (c) Saddle (d) Ball and Socket (viii) Ligament connecting bone tissue is (1M)(a) Tendon (b) Muscle (c) Synovial Capsule (d) Skin Which of the following is *not* primarily a function of blood plasma (xi) (1M)(a) Transport of hormones (b) Transport of O₂ (c) Transport of chylomicrons (d) Transport of antibodies (x) Rhesus (Rh) factor is an inherited protein found on the surface of (1M)(a) Red blood cells (b) White blood cells (c) Platelets (d) All the above (xi) Vitamin B12 deficiency is called as (1M)(a) Pernicious anemia (b) Sickle cell anemia (c) Aplastic anemia (d) Thelessemia Which one of the following is not a lymphatic tissue (xii) (1M)(a) Heart (b) Spleen (c) Thymus (d) Bone marrow Which of the following is cranial nerve, except (1M)(xiii) (a) Optic nerve (b) Facial nerve (c) Occipital nerve (d) Vagus nerve Which of the following nerve transmits sensory information to your brain (xiv) (1M)regarding smells (a) Oculomotor (b) Olfactory (c) Trigeminal (d) Optic

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(xv	7)	The plexus supplies the arm and upper back (a) Cervical Plexus (b) Lumbar Plexus (c) Sacral plexus (d) Brachial plexus	(1M)
(xv	i)	Which of the following structures is a component of reflex arc? (a) Afferent neuron (b) Efferent neuron (c) Sensory receptor (d) All the above	(1M)
(xvii)		The white part of the eye that surrounds the cornea (a) Retina (b) Sclera (c) Macula (d) Choroid	(1M)
(xviii)		The connection of conduction between the myocardium of atria and that of ventricle is (a) S.A node (b) A.V node (c) Bundle of His (d) Purkinje plexus	(1M)
(xix)		The condition of improper beating of the heart, whether irregular, too fast or too slow is (a) Cardiac arrest (b) Arrhythmia (c) Heart failure (d) Angina	(1M)
(xx)		Cardiac output is the product of (a) Heart beat, Stroke volume (b) Heart beat, Peripheral resistance (c) Stroke volume, Peripheral resistance (d) Peripheral resistance, Contractility	(1M)
PART -II			
a)	Ex	plain the processes of cell division.	(5M)
b) Write a brief note on Reticulo endothelial system.		(5M)	
a) Explain about origin and functions of cranial nerves.		(5M)	
b) Write a note on disorders of eye.		(5M)	
a) Write about regulation functions of heart by autonomic nervous system.		(5M)	
b) Ex		plain structure of vein with neat labeled diagram.	(5M)
PART -III			
	W	rite a brief note on general principles of cell communication.	(5M)
Write a note on physiology of muscle contraction.		(5M)	
	De	scribe the structure and functions of skin.	(5M)
	W	rite a note on functions of Lymphatic system.	(5M)
	Ex	plain about composition and functions of blood.	(5M)
	W	rite a note on disorders of tongue.	(5M)
	De	escribe the structure of ear.	(5M)
	W	rite in detail about cardiac cycle.	(5M)
	Ex	plain about disorders of heart.	(5M)

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