

SET - 1

## I B. Pharmacy I Semester Regular Examinations, Jan/Feb - 2018 HUMAN ANATOMY & PHYSIOLOGY-I

Time: 3 ho	HUMAN ANATOMY & PHYSIOLOGY-I Durs Max. Max. Max. Max. Max. Max. Max. Max.	arks: 75
	<ul> <li>Note: 1. Question Paper consists of three parts (Part-I, Part-II &amp; Part-III)</li> <li>2. Answer ALL Questions from Part-I</li> <li>3. Answer any TWO Questions from Part-III</li> <li>4. Answer any SEVEN Questions from Part-III</li> </ul>	
	<u>PART –I</u>	
1. (i)	All pre-ganglionic autonomic neurons secrete	(1M)
(ii)	<ul> <li>(a) Acetylcholine (b). Epinephrine (c) Dopamine (d) 5-Hydroxy tryptamine In cell cycle significance of s-phase is</li> <li>(a) Cell maturation (b) DNA synthesis (c) Resting stage (d) None of the chouse</li> </ul>	(1M)
(iii)	above joint does not come under synovial joint	(1M)
(iv)	<ul> <li>(a) Ball &amp; socket joint (b) Pivot joint (c) Saddle joint (d) None of the above The component of plasma responsible for maintaining the osmotic pressure of blood is</li> <li>(a) Plasmin (b) Albumin (c) Fibrinogen (d) Gamma Globulin</li> </ul>	(1M)
(v)	<ul> <li>(a) Plasmin</li> <li>(b) Albumin</li> <li>(c) Fibrinogen</li> <li>(d) Gamma Globulin</li> <li>Which of the following represents the outermost layer of the heart</li> <li>(a) Myocardium</li> <li>(b) Endocardium</li> <li>(c) Pericardium</li> <li>(d) None of the above</li> </ul>	(1M)
(vi)	Each hemoglobin contains molecules of iron	(1M)
(vii)	blood vessel contains valve system	(1M)
(viii)	(a) Arteries (b) Veins (c) Capillaries (d) All of the above Outer layer of the cell contains ions	(1M)
(ix)	(a) Na+ (b) K+ (c) Ca+ (d) Cl- Apoptosis is caused by organelle	(1M)
(x)	(a) Ribosome (b) Lysosome (c) Sarcoplasmic Reticulum (d) All of the above organ doesn't have parasympathetic innervations	(1M)
(xi)	(a) Stomach(b) Skin(c) Brain(d) LungsTrochlear nerve comes under nerve category	(1M)
(xii)	<ul> <li>(a) Sensory (b) Motor (c) Mixed (d) None of the above</li> <li>In ECG T-wave represents</li> <li>(a) Ventricle contraction (b) Auricle contraction (c) Ventricle dilation</li> <li>(d) Auricle dilation</li> </ul>	(1M)
(xiii)	(a) Cervical (b) Cranial (c) Lumbar (d) Sacral	(1M)
(xiv)	(a) Cervical (b) Crainal (c) Etailour (d) Sacra 	(1M)
(xv)	Neurotransmitters are stored in vesicles that are located primarily in specialized portions of the	(1M)
(xvi)	(a) Soma (b) Axon (c) Dendrite (d) Perikaryon Haematopoiesis means formation of (a) Pasaphil (b) Nautrophil (c) Essinophil (d) All of the above	(1M)
(xvii)	<ul> <li>(a) Basophil</li> <li>(b) Neutrophil</li> <li>(c) Eosinophil</li> <li>(d) All of the above</li> <li>Junction between post synaptic neuron and muscle is called as</li> <li>(a) Synapse</li> <li>(b) Ganglia</li> <li>(c) Neuromuscular junction</li> <li>(d) None of the above</li> </ul>	(1M)

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(xviii)	matured cell does not have nucleus	(1M)
	(a) RBC (b) WBC (c) Platelets (d) All of the	above
(xix)	Which lymphatic organ has the largest amount of	lymphatic tissue? (1M)
	(a) Thymus (b) Spleen (c) Tonsils	(d) Appendix
(xx)	The tissue that lines and covers the body is	(1M)
	(a) Epithelial (b) Muscle (c) Nervous (d) A	Il of the above

## <u>PART – II</u>

2.	a)	Write a note on Cranial nerves.	(5M)
	b)	Describe the functions of bones.	(5M)
3.	a)	Describe the structure and functions of eye.	(5M)
	b)	Describe the functions of reticulo endothelial system.	(5M)
4.	a)	Describe the structure and functions of skin.	(5M)
	b)	Describe the structure and functions of epithelial tissue.	(5M)

## <u>PART - III</u>

5.	Describe the functions of cell and its composition.	(5M)
6.	Write a note on pathophysiology of muscle contraction.	(5M)
7.	Write a note on the origin and functions of sympathetic nervous system.	(5M)
8.	Describe the structure and functions of arteries.	(5M)
9.	Write a note on synaptic signaling.	(5M)
10.	Write a note on conduction system of heart.	(5M)
11.	Write a note on transport across cell membrane.	(5M)
12.	Write a note on structure and functions of neuron.	(5M)
13.	Write a note on functions of neuromuscular junction.	(5M)