

## HCU-003-038101

Seat No.

## B. Voc. (Medical Laboratory & Molecular Diagnostic Technology) (Sem. I) (CBCS) Examination

October / November - 2017

## MLMDT - 1.1 : Fundamentals of Anatomy & Physiology

Faculty Code: 003 Subject Code: 038101

Time :  $2\frac{1}{2}$  Hours] [Total Marks : 70]

**Instructions:** (1) All questions are compulsory.

- (2) Figures on right indicate marks.
- 1 Answer the following Questions:

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- (1) Give examples of Plasma Protein.
- (2) Name Natural Pacemaker.
- (3) Define: Plasma.
- (4) Valve located between the right atrium and right ventricle is \_\_\_\_\_.
- (5) Give one example of neurotransmitter.
- (6) Which hormone is responsible for formation of corpus luteum in the ovary.
- (7) The trachea divides into two smaller tubes called
- (8) Instrument used for blood pressure measurement is known as \_\_\_\_\_.
- (9) Enlist Types of WBCs.
- (10) Which organs are present in abdominal cavity?

	(11)	Fert	cilization takes place at			
	(12)	The	trachea divides into two smaller tubes called	·		
	(13)	Define : Peristalsis.				
	(14)	Define: Vital Capacity.				
	(15)	Enli	st the types of tissues in human body.			
	(16)	Which part of a neuron contains the nucleus ?				
	(17)	The cluster of blood capillaries found in each nephron is called as				
	(18)	Enlist accessory digestive organs.				
	(19)	The smallest bones in the ear are collectively known as the ?				
	(20)		ch muscle tissue is multinucleate, voluntary, es striations ?	and		
2	(A)	Ans	wer the following Questions : (any $3$ out of $6$	6		
		(1)	Enlist Functions of Respiratory System.			
		(2)	Give functions of Blood.			
		(3)	Enlist the enzymes and hormones produce stomach.	d by		
		(4)	Enlist types of respiration.			
		(5)	Differentiate Arteries and Veins.			
		(6)	Enlist the types of epithelial tissues.			
	(B)	Answer the following Questions in Brief: (any 3 out of 6)				
		(1)	Draw a labeled diagram of Heart.			
		(2)	Explain the stages of cardiac cycle.			
		(3)	Note on Salivary Gland.			
		(4)	Note on Spermatogenesis.			
		(5)	Write in brief about types of WBCs.			
		(6)	Note on Heart Valves.			
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(C)	Answer the following Questions in Detail : (any 2 out of 5)				
	(1)	Describe about different circulations of Heart.			
	(2)	Explain Respiratory Cycle.			
	(3)	Describe Respiration Cycle and Breathing.			
	(4)	Role of accessory organs in digestion of food.			
	(5)	Describe composition of Plasma.			
(A)	Answer the following Questions: (any 3 out of 6)				
	(1) Write of Function of Skin.				
	(2)	Differentiate Smooth muscle and Skeletal muscle.			
	(3)	Write the functions of middle ear in brief.			
	(4)	Write the functions of endometrium.			
	(5)	State the function of spinal cord.			
	(6)	Note on neuromuscular junction.			
(B)	Answer the following Questions in Brief: (any 3 out of 6)				
	(1)	Describe role of prostate gland in male reproductive system.			
	(2)	Define hormone. Distinguish between endocrine and exocrine glands.			
	(3)	Draw the labeled structure of nephron.			
	(4)	Enlist the hormones of anterior pituitary gland.			
	(5)	Write the functions of pancreas.			
	(6)	Draw a labeled diagram of multipolar myelinated neuron.			
(C)	Answer the following Questions in Detail: (any 2 out of 5)				
	(1)	Explain mechanisms of muscle contraction.			
	(2)	Describe the mechanism of synapse.			
	(3)	Explain the regulation of water input and water output. Explain the importance of water and electrolyte balance.			
	(4)	Note on process of Urine Formation.			
	(5)	Describe about External Genitalia in female and associated structures.			

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