

The West Bengal University of Health Sciences
1st BMLT November - December, 2022 Examination

Subject : Basics of Human Anatomy and Basics of Human Physiology

Physiology

Attempt all questions

1. Tick the correct answer : 10 x 1
- a) Blood is a type of :
 i) Muscle tissue. ii) Connective tissue. iii) Epithelial tissue. iv) Nervous tissue.
- b) Which enzyme breaks down lactose?
 i) Lipase. ii) Pepsin. iii) Lactase. iv) Amylase.
- c) Which is the smallest gland in human body?
 i) Parotid gland. ii) Pineal gland. iii) Apocrine gland. iv) Ebner's gland.
- d) The blood is purified in :
 i) Kidney. ii) Lung. iii) Heart. iv) Intestine.
- e) Which of the following organ receives only oxygenated blood?
 i) Lung. ii) Gill. iii) Liver. iv) Spleen.
- f) The semilunar valves prevent blood from flowing backwards :
 i) Into the atria. ii) Into the ventricles. iii) Into the brain. iv) Into the liver.
- g) The substance cannot pass through semi permeable walls of glomerulus is:
 i) Globin. ii) Albumin. iii) Blood cells. iv) All of the above.
- h) In which part of the respiratory system :
 i) Alveoli. ii) Pharynx. iii) Trachea. iv) Larynx.
- i) In human is the difference between systolic and diastolic blood pressure.
 i) 40 mm Hg. ii) 80 mm Hg. iii) 20 mm Hg. iv) None of these.
- j) Hemoglobin is having maximum affinity with :
 i) CO. ii) O₂. iii) CO₂. iv) None of these.
2. Write short notes on **any four** of the following : 4 x 5
- a) Special junctional tissue of heart.
 b) Types and causes of hypoxia.
 c) Cardiac output.
 d) Epithelial tissue.
 e) Chloride shift.
 f) Structure and function of hemoglobin.
3. Answer **any two** from the following :
- a) Explain adrenaline gland with its secretion and function. Describe the classification of hormone. 4+6
- b) Briefly describe the structure and function of nephron with suitable diagram. 10
- c) Write down the mechanism of gastric juice secretion. Name the pancreatic hormones. What is peptic ulcer? 6+2+2



Basics of Human Physiology

1. Determine Blood pressure of your subject in sitting position and interpret your result. 15
2. Measure Radial pulse rate your subject and interpret your result. 15
3. Laboratory note book. 5
4. Viva voce. 15

