



BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – B.Physiotherapy-2022
Course Name – Human Physiology - I
Course Code - BPTC102
(Semester I)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct option from the following :

- (i) Name the protein factories of cells
 - a) Peroxisomes
 - b) Ribosomes
 - c) Mitochondria
 - d) Centrosome
- (ii) State the most abundant blood cells in the human body
 - a) WBCs
 - b) RBCs
 - c) Platelets
 - d) Plasma cells
- (iii) Name the human cell which lacks nucleus
 - a) Lymphocyte
 - b) RBC
 - c) Monocytes
 - d) Neutrophils
- (iv) Identify the pigment in red blood cells that carries oxygen.
 - a) Erythropoietin
 - b) Haemoglobin
 - c) Melatonin
 - d) Urobilinogen
- (v) Identify the rarest blood group
 - a) A positive
 - b) A negative
 - c) O positive
 - d) B negative
- (vi) Identify the normal rate of GFR
 - a) 50 ml/min
 - b) 125 ml/min
 - c) 100 ml/min
 - d) 75 ml/min
- (vii) Choose the one which is not a salivary gland
 - a) Parotid Gland
 - b) Maxillary Gland
 - c) Sublingual Gland
 - d) Sub Mandibular Gland
- (viii) Choose the part of the digestive system where chemical digestion of protein begins
 - a) Mouth
 - b) Esophagus
 - c) Stomach
 - d) Small Intestine
- (ix) Choose the color of bile
 - a) Reddish Black
 - b) Greenish Blue
 - c) Greenish Yellow
 - d) Yellowish Red
- (x) Choose the part of the digestive system where Crypts of Lieberkühn are found

- a) Gall Bladder
c) Liver
- b) Intestine
d) Kidney
- (xi) Select the hormone which stimulates the release of Testosterone
- a) Inhibin
c) Progesterone
- b) Luteinizing Hormone
d) TSH
- (xii) Select the option which is correct for tachycardia
- a) Heart Rate Decreases
c) Heart Rate Remains Normal
- b) Heart Rate Increases
d) All of these
- (xiii) Select the chamber of heart which collects oxygenated blood from lungs
- a) Right Atrium
c) Right Ventricle
- b) Left Ventricle
d) Left Atrium
- (xiv) Report the normal value of stroke volume
- a) 80-90 ml
c) 70-100 ml
- b) 60-80 ml
d) 40-50 ml
- (xv) Unusual heart sound is expressed as
- a) Lub Dub
c) 1st Sound
- b) Murmur
d) None of these

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain the process of carbohydrate digestion in the human body. (3)
3. Illustrate the functions of RBC. (3)
4. Illustrate the parts of the stomach (3)
5. Write down the process of salivary digestion (3)
6. Compose the structure of Heart and its vessels with their diagrams (3)

OR

Report the hormonal changes during the menstrual cycle (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Describe the role of Golgi Apparatus. (5)
8. Illustrate pulmonary function tests. (5)
9. Explain the process of blood coagulation. (5)
10. Write about the functions of Liver. (5)
11. Analyze the actions and regulation of secretion of cortisol. (5)

OR

Classify the hormones secreted from the adrenal cortex. (5)

12. Assess the male reproductive system with diagram. (5)

OR

Compare the function of different chambers of the heart. (5)
