



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme - B.Sc.(MRIT)-2022 Course Name – Human Anatomy & Physiology Part I **Course Code - BMRITC101** (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 alternative from the following: (i) Identify the structure that prevent the food to enter trachea a) Epiglottis b) Esophagus c) Pharynx d) Larynx (ii) Write an example of a nutritional deficiency anemia a) Aplastic anemia b) Sickle cell anemia c) Iron deficiency anemia d) Inflammatory anemia (iii) Select the type of blood cell which is involved in our immunity: a) Hepatocytes b) WBCs c) Purkinje cells d) G cells (iv) Select the normal level of haemoglobin in females a) 11-14 g/dL b) 9-11 g//dL d) 10-18 g/dL c) 14-18 g/dL (v) Speculate the name of the iron-containing protein that is responsible for red colouration of blood a) Hemocyanin b) Hemosiderin c) Hemoglobin d) Myoglobin (vi) Select the name of the cell responsible for Phagocytosis a) Mast cell b) Plasma cell c) Macrophages d) Fat cell (vii) State which of the following is a Sesamoid bone a) Patella b) 2nd Metacarpal d) Triquetral c) Scaphoid (viii) Tell the name of nerve that supplies the Intrafusal fiber of skeletal muscle a) type I sensory neuron b) type 2 sensory neuron c) gamma motor neuron d) All of these

b) 3

d) 5

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(ix) Select how many segments of duodenum are there

a) 1

c) 4

(x)	Identify the correct option: Pericardial fluid is located in between		
(xi)	a) Endocardium & Myocardiumc) Pericardial and visceral layer of pericardiumSelect where the Islets of Langerhans are present		
(xii)	a) Body of pancreasc) Interalveolar cells of pancreatic ductPredict the correct option. The cardiac pacema	b) Head of pancreas d) Cystic duct ker is	
(xiii)	a) S A nodec) A V NodeIdentify the name of the covering of the heart:	b) Bundle of His d) All of these	
(xiv)	a) Meningesc) PeritoneumChoose from the following options where gases	b) Pleura d) Pericardium ous exchange takes place:	
(xv)	a) Pharynxc) AlveoliIdentify the part of the brain that regulates the	b) Larynx d) Trachea respiratory process	
	a) The vagus nerve c) Medulla oblongata	b) Cerebral peduncle d) Cerebellum	
Group-B (Short Answer Type Questions) 3 x 5=1			
 Explain the difference between expiratory reserve volume and inspiratory reserve volume. Classify the parts of liver and the functions of liver. Write about the ABO blood grouping system in human. Explain how pacemaker potential helps in the contraction of cardiac muscles. Define the type of voluntary muscle (according to the color, direction of the muscle fibers) 			(3) (3) (3)
Name the rotator cuff muscles of shoulder.			(3)
Group-C (Long Answer Type Questions) 5 x 6=3			
 State the parts of long bone and its microscopic anatomy in brief. Explain the phases in the cardiac cycle. Illustrate how respiration is chemically regulated. Illustrate the structure of spleen and its functions. Categorize the salivary glands, composition of saliva and its functions. Summarize the problems that may arise from blood transfusion. OR Evaluate any 5 factors that may affect erythropoiesis. 			(5) (5) (5) (5) (5) (5)
	Evaluate ally 5 factors that may affect erythropol	ESIS.	(5)
