

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Diploma in Pharmacy Course Name – Human Anatomy & Physiology Course Code - 1.5T (Year I)

Time allotted: 1 Hrs.35 Min. Full Marks: 80 [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) $1 \times 80 = 80$ Choose the correct alternative from the following: (1) Which of the following is flexible connective tissue that is attached to bones at the joints? a) Adipose b) Cartilage d) Muscle c) Epithelial (2) Which of the following best describes the human body's defence mechanism against environmental bacteria? a) Hair in the nose b) Mucous membranes c) Saliva d) Osteoblasts (3) The term cell was coined by a) Schwann b) Robert Hooke d) Tatum c) De Bary (4) Smooth endoplasmic reticulum is site of : a) Protein Synthesis b) Carbohydrate Synthesis c) Amino acid Synthesis d) Lipid Synthesis (5) In a normal human being number of chromosomes is a) 23 b) 46 c) 53 d) 26 (6) The rough ER is so named because it has an abundance of on it. a) Mitochondria b) Lysosomes c) Golgi bodies d) Ribosomes

(7) DNA is mainly present in:

a) Ribosome	b) Plasma membrane
c) Nucleus	d) None of these
(8) Rhythmicity is a property of:	
a) Nervous tissue	b) Voluntary muscle
c) Cardiac muscle	d) Globular Cell
(9) Bone is a tissue.	
a) Epithelial	b) Muscular
c) Connective	d) All of these
(10) Ribosomes helps in:	
a) Photosynthesis	b) Protein Synthesis
c) Sympathetic	d) None of these
(11) Name the outer most boundary of cell:	
a) Plasma membrane	b) Cytoplasm
c) Nuclear membrane	d) None of these
(12) Which of the following gives shape to the c	cell?
a) Protoplasm	b) Cytoplasm
c) Plasma membrane	d) Erythrocyte
(13) A very important organelle which is also ca	alled power house of cell is:
a) Mitochondria	b) Mucous membranes
c) Golgi complex	d) Nucleus
(14) Synapse is present in:	
a) Cardiac tissue	b) Connective tissue
c) Nervous tissue	d) Epithelial tissue
(15) The epithelial tissues present on the inner stubules are	urface of bronchioles and fallopian
a) Squamous	b) Ciliated
c) Glandular	d) Cuboidal
(16) Name the tissues that are involved in the fo	rmation of membranes.
a) Epithelial tissue	b) Nervous tissue
c) Muscular tissue	d) Connective tissue
(17) Which of the following does not belong to epithelium?	the class of covering and lining
a) Simple squamous epithelium	b) Glandular epithelium
c) Simple cuboidal	d) Simple columnar
(18) All movement of human body is coordinate	ed and controlled by:
a) Axial system	b) Nervous system
c) Vertebral system	d) Skeletal muscles
(19) The rough ER is so named because it has an	n abundance ofon it.
a) Mitochondria	b) Ribosome's
c) Golgi bodies	d) Liposome's
(20) Each organelle has a specified:	
a) Shape	b) Function
c) Size	d) Mass

(21) The type of cellular organization in which n division is called:	nany organisms do not undergo cellular
a) Unicellular	b) Multi-cellular
c) Colonial	d) Groups
(22) Strength is provided to plants by tissues known	own as:
a) Parenchyma only	b) Collenchyma only
c) Ground tissues	d) Parenchyma and collenchyma
(23) Vacuoles are not permanent in:	
a) Plant cell	b) Human cell
c) Toad cell	d) Animal cell
(24) The function of building up of the proteins in	in the cell is done by:
a) Chromatin	b) Chromosomes
c) Nucleolus	d) Neucleoplasm
(25) What is the difference between compact bor	ne and spongy bone?
a) They have different bone marrow	b) They are made of different materials
c) They have different sizes of bone cells	d) They have different arrangement of bone cells
(26) Muscles are made of	
a) Silica	b) Polyester threads
c) Calcium and phosphorous	d) Groups of cells called fibres
(27) How do muscles attached to the bones move	e the body?
a) Automatically	b) Pull movement only
c) Push movement only	d) Push and pull movement
(28) Which of the following connects the sternur	m to the ribs?
a) Bony matter	b) White fibrous cartilage
c) Hyaline cartilage	d) Aerolar tissue
(29) The number of saddle joints in human body	is:
a) 10	b) 8
c) 4	d) 2
(30) What type of joint is found in wrist?	
a) Saddle joint	b) Gliding joint
c) Pivot joint	d) Hinge joint
(31) What are bones forming cells called?	
a) Osteocytes	b) Osteoblasts
c) Osteoclasts	d) Osteons
(32) Which of the following is sesamoid bone?	
a) Scapula	b) Patella
c) Sternum	d) Tibia
(33) An example of ball and socket joint in the h	numan body can be found in the –
a) Shoulder	b) Knees
c) Ankles	d) Elbow
(34) The hollow space in the middle of bones is	filled with:

a) Air	b) Blood
c) Bone cells	d) Bone marrow
(35) Which cells in the blood do not have a nu	icleus?
a) Lymphocyte	b) Monocyte
c) Basophil	d) Erythrocyte
(36) The branch of science deals with blood, be called	blood forming tissues and its disorders is
a) Hemopoiesis	b) Cardiovascular system
c) Plasmology	d) Hematology
(37) Which of the following is NOT a plasma	protein?
a) Albumin	b) Globulin
c) Fibrinogen	d) Fibronectin
(38) Which type of anemia is responsible for t	the disease thalassemia?
a) Aplastic anemia	b) Hemolytic anemia
c) Hemorrhagic anemia	d) Iron deficiency anemia
(39) Blood is stained with stain.	
a) Methylene blue	b) Safranin
c) Leishman stain	d) Carbol fuchsine
(40) Process of formation of blood corpuscles	is called
a) Haemolysis	b) Haemozoin
c) Haemopoesis	d) Haemoter
(41) Which leucocytes release heparin and his	stamine in blood?
a) Neutrophil	b) Basophil
c) Eosinophil	d) Monocytes
(42) Absence of which clotting factor leads to	Hemophilia-A?
a) Factor VII	b) Factor VIII
c) Factor IX	d) Factor X
(43) What prevents clotting of blood inside blood	ood vessels?
a) Heparin	b) Serotonin
c) Fibrinogen	d) Fibrin
(44) Most of the volume of normal human blo	ood is composed of:
a) Red cells	b) Hemoglobin
c) Plasma	d) White cell
(45) The life span of erythrocyte is about:	
a) 60 days	b) 90 days
c) 120 days	d) 100 days
(46) The average total number of White blood	cell is:
a) 5000 per cu mm	b) 10000 per cu mm
c) 4000 per cu mm	d) $6000 - 8000$ per cu mm
(47) is a blood disorder where the hae	moglobin is defective:
a) Heterochromia	b) Alopecia
c) Haemolysis	d) Sickle cell anaemia
(48) Lymph is without:	

a) Leucocytes	b) Plasma
c) Erythrocytes	d) None of these
(49) Ventricle is thick walled as compared to auricle	, because:
a) It is present on the posterior side	b) It is to pump blood
c) It is to receive blood from auricles	d) None of these
(50) Lymph nodes may be located in the human bod	y in the tissues of the:
a) Stomach & Brain	b) Groin & Neck
c) Ventricle & Atrium	d) Thyroid gland & Adrenal Gland
(51) The thymus is responsible for secreting	from epithelial cells.
a) Thymosin	b) Growth hormone
c) Macrophages	d) Plasma cells
(52) T-cell activation requires a/ancell:	
a) Activation	b) Accessory
c) Plasma	d) Helper
(53) Out of the following, which one is NOT the phy	ysical characteristic of the blood?
 a) Volume is 15-16 liters in an average sized adult male 	b) Slightly alkaline pH
c) Slightly alkaline pH	d) Provide 8% of total body mass
(54) Complete digestion of food occurs in:	
a) Stomach	b) Small intestine
c) Pancreas	d) None of these
(55) Removal of waste from our body to the process	s of:
a) Excretion	b) Respiration
c) Exhalation	d) Double Circulation
(56) The reserve pace maker is:	
a) AV node	b) SA node
c) Bundle of His	d) None of these
(57) Parotid glands are present in:	
a) Stomach	b) Mouth
c) Pharynx	d) Intestine
(58) The site of respiration inside the lungs are	
a) Alveoli	b) Diaphragm
c) Bronchi	d) Bronchioles
(59) The structure which closes of larynx is	
a) Epiglottis	b) Vocal cords
c) Adam's apple	d) Glottis
(60) ECG records electrical changes in which of the the correct option:	following layers of the heart, mark
a) Epicardium	b) Pericardium
c) Endocardium	d) Myocardium
(61) Natural pacemaker of heart:	
a) AV node	b) SA node
c) Bundle of His	d) None of these

(62) Which of the following membrane is responsib	le for the protection of the heart?	
a) Epicardium	b) Endocardium	
c) Myocardium	d) Pericardium	
(63) The semilunar valves prevent blood from flowing backwards:		
a) Into the atria	b) Into the ventricles	
c) Into the brain	d) Into the liver	
(64) All the following apply to the bicuspid valve ex	xcept:	
a) It is also called the mitral valve	b) It is a semilunar valve	
c) It is found on the left side of the heart	d) It prevents blood from backing into the left atrium	
(65) Mitral valve is present between:		
a) Right atrium and left ventricle	b) Right and left ventricle	
c) Left ventricle and aorta	d) Left atrium and left ventricle	
(66) The first branch of the human aorta is:		
a) Left subclavian artery	b) Brachiocephalic artery	
c) Coronary artery	d) Left common carotid artery	
(67) Which part of human brain is concerned with the	he regulation of body temperature:	
a) Cerebellum	b) Hypothalamus	
c) Scapula	d) Mandible	
(68) Function of smooth muscles, cardiac muscles, eggs system	organs and glands are regulated by	
a) Autonomic	b) Central	
c) Sympathetic	d) None of these	
(69) The "sodium-potassium pump" pumps		
a) Sodium ions out and potassium ions in	b) Sodium ions in and potassium ions out	
c) Sodium and potassium ions in	d) Sodium and potassium ions out	
(70) In peripheral nervous system the nerves that arise from spinal cord and brain are called as		
a) Spinal nerves	b) Cranial nerves	
c) Temporal nerves	d) Frontal nerves	
(71) Spinal cord and brain are wrapped in protective membranes known as		
a) Nodes of Ranvier	b) Meninges	
c) Axomembranes	d) Mylein sheath	
(72) Bipolar neurons have		
a) Two axons	b) One axon and one dendrite	
c) One axon and one presynaptic terminal	d) Two presynaptic terminals	
(73) Which of the following helps in maintaining th	e shape of the eye?	
a) Neuroglia	b) Aqueous humor	
c) Vitreous humor	d) Perikaryon	
(74) What is the speed of nerve impulse?		
a) 60 m/s	b) 0.5 – 130 m/s	
c) 10-30 m/s	d) 50 -150 m/s	
(75) Broca's area in the left hemisphere is related to	_	

b) Speech
d) Sensation of smell
ds take place in the region of:
b) Motor area
d) Broca's area
rishes, and protects the neurons?
b) Perikaryon
d) Glial cells
are the:
b) Serous glands
d) Glands of Nuhn
na and sensitive to the light intensity is:
b) Cones
d) None of these
b) The brain
d) Outer ear