

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Science in Medical Radiology & Imaging Technology Course Name – Human Anatomy and Physiology Part-1 Course Code - BMRIT201

(Semester II)

Time allotted: 1 Hrs.15 Min. Full Marks: 60 [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) Anatomical position has following features except: a) Person standing erect b) Forearms are pronated c) Feet together d) Eyes looking forward (2) Define abduction: a) Movement away from central axis b) Movement towards central axis c) Approximation of the dorsal surfaces. d) Approximation of the ventral axis (3) What is lateral rotation? a) posterior surface of a bone of limb is turned b) anterior surface of a bone of limb is turned away from midline away from midline. c) posterior surface of a bone of limb is turned d) Movement will not occur away from lateral line (4) Group of cells, which is similar in structure and function are structured into a) Muscles b) bone d) tissue c) organ system (5) Which of the following does not belong to the class of covering and lining epithelium? a) Simple squamous epithelium b) Simple columnar c) Glandular epithelium d) Simple cuboidal (6) Which of the following is NOT the function of areolar connective tissues?

b) Support

d) Elasticity

a) Strength

c) Forms stroma of organs

(7) All the following are non striated muscles except

a) Palmaris brevis	b) Muscle of iris
c) Dartos muscle of scrotum	d) Arrector pilorum
(8) Which muscle has the longest muscle fibro	es?
a) deltoid	b) soleus
c) gluteus maximus	d) sartorius
(9) Which of the following structure has maxi-	mum blood supply
a) bones	b) cartilage
c) tendon	d) ligaments
(10) What type of contraction is characterized by	by a rapid, jerky response to a single stimulus?
a) summation	b) treppe
c) tonic	d) twitch
(11) The smallest, functional unit of contraction	n is
a) fibers	b) myofibril
c) filaments	d) sarcomere
(12) Neuroglial cells are derived from neuroect	oderm except
a) astrocytes	b) microglia
c) oligodendrocytes	d) glioblasts
(13) Bipolar neurons are present in	
a) spiral ganglia	b) vestibular ganglia
c) Olfcatory cells	d) Neurons in posterior horn of spinal cord
(14) The neurons arise from the embryonic cell	s is called
a) neuroblast	b) cytoblast
c) dendrocyte	d) erythroblast
(15) Synaptic vesicles are most commonly loca	ated
a) Within the axon hillock	b) Within presynaptic terminal
c) Within synaptic cleft	d) myelin sheath
(16) The first bone to start ossifying is	
a) mandible	b) femur
c) clavicle	d) humerus
(17) Which of the following is a hinge joint?	
a) radioulnar	b) wrist
c) Metacarpophalangeal	d) Elbow
(18) Mention the name of the joint present betw	veen epiphysis and diaphysis
a) fibrous	b) Primary cartilaginous
c) Secondary cartilaginous	d) Synovial
(19) Which of the following is the largest segment	ent of the movable part of the vertebral column?
a) Coccygeal	b) Cervical
c) Lumbar vertebrae	d) Thoracic
(20) Choose the correct vertebral formula of ve	ertebral column of human being.
a) C7 Th13 L4 S5 Co4	b) C7 Th12 L5 S5 Co4
c) C7 Th13 L5 S5 Co4	d) C7 Th12 L5 S5 Co1
(21) Which is not a fibrous joint?	

a) suture	b) gomphosis
c) xiphisternal	d) inferior tibiofibular
(22) All the following are components of appendicula	ar skeleton except
a) clavicle	b) femur
c) pelvic bone	d) vertebrae
(23) Bones united by fibrous tissue, such as the sutur	res in the skull are
a) synovial joint	b) cartiliginous joint
c) fibrous joint	d) ball and socket joint
(24) Shoulder joint is a type of	
a) hinge joint	b) ball and socket joint
c) pivot joint	d) fibrous joint
(25) A long bone has	
a) one epiphysis and one diaphysis	b) two epiphysis and two diaphysis
c) one epiphysis and two diaphysis	d) two epiphysis and one diaphysis
(26) Pulmonary ventilation movements are due to	
a) Diaphragm	b) Wall of lungs
c) Costal muscles and diaphragm	d) Costal muscles
(27) Hypoxia occurs due to	
a) Rise in level of CO2	b) Fall in level of CO2
c) Rise in level of O2	d) Fall in level of O2
(28) The epithelial tissues present on the inner surfac are	e of bronchioles and fallopian tubules
a) Squamous	b) Ciliated
c) Glandular	d) Cuboidal
(29) Lungs are covered by	
a) pleural membrane	b) peritoneum
c) pericardium	d) muscles
(30) Where does the arterial blood come from those s	supplies to visceral pleura?
a) Bronchial veins	b) Intercostal nerves
c) Bronchial arteries	d) The costodiaphragmatic recesses
(31) What is the dry form of inflammation without a pleural cavity called?	significant collection of fluid in the
a) intercostal nerves	b) pleura
c) pleurisy	d) Pneumothorax
(32) What does the pulmonary ligament contain?	
a) The inner surface of the thoracic wall	b) Interpleural space/ Pleural cavity
c) A thin layer of areolar tissue with a few lymphatics	d) The pulmonary veins to expand during the increased venous return, such as during exercise
(33) Place where trachea bifurcates into right and left	t bronchus is
a) bronchi	b) carina
c) trachea	d) hilus
(34) What part of parietal pleura covers the superior s	surface of the diaphragm?

a) Mediastinal pleura	b) Diaphragmatic pleura
c) Intercostal nerves	d) Pneumothorax
(35) Which of the following does not belong to cor	nducting portion of the respiratory system?
a) nose	b) pharynx
c) alveoli	d) bronchioles
(36) acts as air conditioners.	
a) Nasal chambers	b) larynx
c) pharynx	d) lungs
(37) Respiratory center controlled by pons is	
a) Gasping	b) pneumotaxic
c) Inspiratory	d) Expiratory
(38) Vital capacity in man (in Litre) is	
a) 4.2	b) 4.8
c) 6	d) 6.8
(39) CO2 affects respiratory centre via	
a) Aortic bodies	b) Carotid bodies
c) Inflation and deflation receptors	d) H+ concentration
(40) Carbon monoxide is released in lungs from	
a) Iron of heme molecule	b) Plasma
c) Transferin	d) Serum
(41) H2CO3 is converted into CO2 and H2O with	the help of an enzyme known as
a) Carboxylase	b) Carbonic dehydrogenase
c) Carbonicenhydrase	d) Carbonic anhydrase
(42) Bronchitis is	
a) bacterial infection	b) viral infection
c) Protozoan infection	d) fungal infection
(43) The following muscles made up the borders of	f the popliteal fossa EXCEPT:
a) biceps femoris	b) gastrocnemius
c) popliteus muscle	d) plantaris
(44) The tendons that strengthen and stabilize the k the following except:	tnee joint on the lateral side consist of all of
a) Biceps femoris	b) Gastrocnemius
c) Iliotibial tract	d) Soleus
(45) A muscle is known as Tailor muscle	
a) Iliacus	b) psoas major
c) Sartorius	d) Pectineus
(46) The sesamoid bone of the lower limb is:	
a) Pubis	b) Patella
c) Illium	d) Calcaneum
(47) Calf muscle is	
a) Tibialis anterior	b) sartorius
c) adductor magnus	d) gastrocnemius

(48) Hamstring muscle originates from		
a) Pubis	b) iliac crest	
c) ischial tuberosity	d) head of femur	
(49) Total Number of bones in Axial Skeleton		
a) 206	b) 80	
c) 120	d) 126	
(50) How many bones does human ankle has?		
a) 4	b) 5	
c) 6	d) 7	
(51) The cell is not applied for		
a) Fungi	b) Bacteria	
c) Algae	d) Virus	
(52) The function of the centrosome is		
a) Osmoregulation	b) Protein Synthesis	
c) Formation of Spindle fibres	d) Secretion	
(53) The is connective tissue that surrounds the entire muscle.		
a) Endomysium	b) Perimysium	
c) Epimysium	d) Sarcolemma	
(54) A cord or strap of dense tissue that connects a muscle to bone is called		
a) Tendon	b) Ligament	
c) Arthritis	d) Bursa	
(55) A motor unit is made up of		
a) All the muscle fibers within a given muscle	b) A motor neuron and the muscle fibers it innervates	
 c) All the neurons going into an individual section of the body 	d) A fasicle & a nerve	
(56) Among the following which one is not the location	n of smooth muscle cells?	
a) Iris of the eye	b) Heart wall	
c) Airways to the lungs	d) Urinary bladder	
(57) The supporting and nutritive cells found in brains are		
a) Ependymal cells	b) Microglia	
c) Astrocytes	d) Oligodendrocytes	
(58) Which of the following connective tissue envelopes the bone?		
a) Periosteum	b) Myocardium	
c) Marrow	d) Pericardium	
(59) Which cell secretes the matrix for bone formation	?	
a) Osteoclastoma	b) Osteoclast	
c) Osteoblasts	d) Mesoblasts	
(60) The joint between atlas and axis is	_	
a) Ball and socket joint	b) Saddle joint	
c) Pivot joint	d) Angular joint	