

## **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 away b) anterior surface of a bone of limb is turned away f from midline rom midline. c) posterior surface of a bone of limb is turned away d) Movement will not occur

from lateral line

(4) Group of cells, which is similar in structure and function are structured into

a) Muscles b) bone

c) organ system d) tissue

(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?

a) Strength b) Support

c) Forms stroma of organs d) Elasticity

(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 fibres?

a) deltoid b) soleus

c) gluteus maximus d) sartorius

a) bones	b) cartilage
c) tendon	d) ligaments
(10) What type of contraction is characterized	by a rapid, jerky response to a single stimulus?
a) summation	b) treppe
c) tonic	d) twitch
(11) The smallest, functional unit of contraction	on is
a) fibers	b) myofibril
c) filaments	d) sarcomere
(12) Neuroglial cells are derived from neuroec	toderm 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 cel	lls is called
a) neuroblast	b) cytoblast
c) dendrocyte	d) erythroblast
(15) Synaptic vesicles are most commonly loc	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 bet	ween epiphysis and diaphysis
a) fibrous	b) Primary cartilaginous
c) Secondary cartilaginous	d) Synovial
(19) Which of the following is the largest segn	nent of the movable part of the vertebral column?
a) Coccygeal	b) Cervical
c) Lumbar vertebrae	d) Thoracic
(20) Choose the correct vertebral formula of v	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 appe	ndicular skeleton except
a) clavicle	b) femur
c) pelvic bone	d) vertebrae
(23) Bones united by fibrous tissue, such as th	e sutures 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 Page 2 of 5
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(9) Which of the following structure has maximum blood supply

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 surface of b	•
a) Squamous	b) Ciliated
c) Glandular	d) Cuboidal
(29) Lungs are covered by	u) Cubbidai
a) pleural membrane	b) peritoneum
c) pericardium	d) muscles
7 1	,
(30) Where does the arterial blood come from those suppli	-
a) Bronchial veins	b) Intercostal nerves
c) Bronchial arteries	d) The costodiaphragmatic recesses
(31) What is the dry form of inflammation without a signify called?	ficant collection of fluid in the pleural cavit
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 lymphatic s	d) The pulmonary veins to expand during the increas ed venous return, such as during exercise
(33) Place where trachea bifurcates into right and left bron	ichus is
a) bronchi	b) carina
c) trachea	d) hilus
(34) What part of parietal pleura covers the superior surface	ce of the diaphragm?
a) Mediastinal pleura	b) Diaphragmatic pleura
c) Intercostal nerves	d) Pneumothorax
(35) Which of the following does not belong to conducting	g 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	, <del>-</del>
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	,
() all the first traphatory control in	

a) Aortic bodies	b) Carotid bodies
c) Inflation and deflation receptors	d) H+ concentration
40) Carbon monoxide is released in lungs to	from
a) Iron of heme molecule	b) Plasma
c) Transferin	d) Serum
41) H2CO3 is converted into CO2 and H2O	O 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 bo	orders of the popliteal fossa EXCEPT:
a) biceps femoris	b) gastrocnemius
c) popliteus muscle	d) plantaris
44) The tendons that strengthen and stabili owing except:	ze the knee joint on the lateral side consist of all of the foll
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	s:
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 Skelet	on
a) 206	b) 80
c) 120	d) 126
50) How many bones does human ankle ha	as?
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 the	hat surrounds the entire muscle.
a) Endomysium	b) Perimysium
c) Epimysium	d) Sarcolemma
54) A cord or strap of dense tissue that con	meets a muscle to bone is called
a) Tendon	b) Ligament
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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 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	ne 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