Chapter:20 Locomotion and Movement

True and False			
Q.No	Question	Answer True/ False	Typology
Q.1	Axial skeleton has 110 bones	False	Knowledge
Q.2	The pivot joint in between atlas and axis is the type of saddle joint.	False	Knowledge
Q.3	Tetanus is the lack of relaxation between successive stimuli in sustain muscle contraction	True	Application
Q.4	Accumulation of uric acid crystal in joint cause osteoporosis	False	Application
Q.5	Total number of bones present in the pectoral girdle in normal human are two	True	Knowledge
Q.6	Function of myoglobin in muscles is to store calcium.	False	Understanding
Q.7	Hinge joint is found in knee joint and elbow joint.	True	Application
Q.8	The muscles of hands and legs are striated and voluntary.	True	Knowledge
Q.9	Macrophages and leucocytes exhibit ciliary movement	False	Understanding
Q.10	ATPase of the muscles is located in troponin.	False	Application
Q.11	Smooth muscles help in transportation of food.	True	Knowledge
Q.12	During contraction width of I and A bands remains the same	True	Knowledge
Q.13	A neural signal reaching neuromuscular junction releases Dopamine	False	Understanding
Q.14	Magnesium ion level increase during muscles contraction.	False	Application
Q.15	Accumulation of lactic acid in muscles causes fatigue.	True	Knowledge
Q.16	Sarcoplasmic content is high in White fibers.	True	Understanding
Q.17	Vertebral column consists of 36 vertebrae	False	Knowledge
Q.18	Rapid spasm in muscles is due to high calcium ion in body fluid	False	Evaluation

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Q.19	Gout is an inflammation of joints.	True	Knowledge
Q.20	Muscular dystrophy is a genetic disorder.	True	Knowledge

Multiple Choice Questions

Q.No	Question	Answer	Typology
Q.1	Ribs are attached to: (A) Scapula (B) Sternum (C) Clavicle (D) Ilium	B	Understanding
Q.2	What is the type of moveable joints present in between the atlas and axis ? (A) Pivot (B) Saddle (C) hinge (D) Gliding	A	Knowledge
Q.3	The property which does not belong to muscles fibre is : (A) Contractility (B) Elasticity (C) Excitability (D) Conductivity	D	A
Q.4	A meromyosin molecule does not contain: (A) Trunk (B) Arm (C) Tail (D) Head	A	Knowledge
Q.5	A functional G actin molecules in its free state is bound to : (A) Mangnese ion and ATP (B) Calcium ion and ATP (C) Magnesium ion and ATP (D) Sodium ion and ATP	C	E

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Q.6	Muscles are attached to bones via: (A) Joints (B) Screw (C) Ligament (D) Tendon	D	Knowledge
Q.7	Name the ions responsible for unmasking of active site for myosin during muscles contraction: (A) Sodium (B) Potassium (C) Calcium (D) Magnesium	C	Knowledge
Q.8	Lack of relaxation between successive stimuli in sustained muscles contraction is: (A) Spasm (B) Fatigue (C) Tetanus (D) Tonus	C	Application
Q.9	Glenoid cavity articulate: (A) Humerus with scapula (B) Clavicle with acromion (C) Scapula with acromion (D) Clavicle with scapula	A	Knowledge
Q.10	Which of following joint would allow no movement: (A) Ball and socket joint (B) Fibrous joint (C) Cartilaginous joint (D) Synovial joint	B	Understanding
Q.11	One myosin filament in the myofibril of skeleton muscle fibre is surrounded by A) 2 actin filaments (B) 4 actin filaments (c) 6 actin filaments (d) 8 actin filaments	C	Evaluation
Q.12	Functional unit of muscle fibre is: (A) Thick filament (B) Myofibril (C) Thin filament (D) Sarcomere	D	Understanding
Q.13	Which of the following is the regulatory muscle protein having double chain structure: (A) Troponin (B) Actin (C) Myosin (D) Tropomyosin	B	Understanding

Q.14	Axial skeleton is made up of: (A) Skull (B) Sternum (C) Complete vertebral column D) Pelvic girdle	A	Knowledge
Q.15	Number of cranial bones in human are: (A) 20 (B) 10 (c) 8 (D) 14	C	Knowledge
Q.16	Which is a Bone of hand : (A) Humerus (B) Femur (C) Tibia (D) Shaft	A	Knowledge
Q.17	An autoimmune disorder affecting neuromuscular function leading to weakening of skeletal muscle is : (A) Osteoporosis (B) Arthritis (C) Muscular dystrophy (D) Myasthenia graves	D	Knowledge
Q.18	The muscles fatigue occurs due to accumulation of: (a) Carbondioxide (B) Lactic acid (C) Creatine phosphate (D) Myosin Atpase	B	Understanding
Q.19	Smallest bone of body is: (A) Incus (B) Femur (C)Stapes (D) Malleus	C	Knowledge

Fill in the Blanks

Q.No	Question	Answer	Typology
Q.1	Locomotion requires a perfect coordinated activity of muscular and ---------- systems	Skeletal System	Knowledge
Q.2	The joint between adjacent vertebrae in the vertebral column is of…….joint.	Cartilaginous	Understanding

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Q.3	The bones of the limbs along with their girdle constitute the ----------skeleton.	Appendicular	Knowledge
Q.4	A flat bone on the ventral midline of thorax is ----------.	Sternum	Knowledge
Q.5	The number of cervical vertebrae are ---------- in almost all mammals.	Seven	Knowledge
Q.6	Skeletal muscle is made up of a number of ----------	Muscle fibres, fascicles	Knowledge
Q.7	Muscle fibers consist of ---------- and ---------- proteins	Actin, Myosin	Understanding
Q.8	Red fibres are appears red due to excess amount of ---------- pigment	Myoglobin	Knowledge
Q.9	Sarcoplasmic reticulum is high and number of mitochondria are few in ---------- fibres.	White Fibres	Understanding
Q.10	Limited movement in vertebral column is provided by ---------- joint.	Cartilaginous joint	Knowledge
Q.11	Muscles possess ---------- and ---------- property.	Excitability/contractility/,flexibility/,elasticity	Knowledge
Q.12	The rapid spasms in muscles due to low calcium ion in the body fluid is called -------	Tetany	Understanding
Q.13	Each myosin filament is also a -------- protein	polymerised	Understanding
Q.14	Light band contain actin is called--------- band .	Isotropic	Knowledge
Q.15	Muscle is a specialized tissue of -------- origin.	Mesodermal	Knowledge
Q.16	The number of phalanges in each limb of human is----------	14	Knowledge
Q.17	Thin filament of myofibril contain 2 F actin and two other protein namely --------& ----------	Tropomyosin and troponin	Understanding
Q.18	In a muscle fibre calcium ion is stored in ----------	Sarcoplasmic reticulum.	Knowledge
Q.19	In *Paramoecium*--------- helps in locomotion .	Cilia	Knowledge
Q.20	Hydra use -------- for capturing its prey	Tentacles	Knowledge

Match the Following

Q.No	Question		Answer		Typology
Q.1	Column A a.Smooth muscles b.Red muscles	Column B i)Myoglobin ii)Thin filament iii)Involuntary iv)sutures	Column A a. b.	Column B iii) i)	Understanding
Q.2	Column A a.Tetany b.Arthritis	Column B i)Disorder of muscles ii)Genetic disorder iii)Disorder of skeleton iv)Neural disorder	Column A a. b.	Column B i) iii)	Understanding
Q.3	Column A a.Malleus b. Incus	Column B i)Articular bone ii)Quadrate bone iii)Sesamoid bone iv)Hyomandibular bone	Column A a. b.	Column B i) ii)	Understanding
Q.4	Column A a.Sarcomere b.Actin filament	Column B i)Myoglobin ii)lactic acid iii)Contractile unit iv)I band	Column A a. Sarcomere b.Actin filament	Column B iii) contractile unit iv) I band	Knowledge
Q.5	Column A a.Pivot joint b.Hinge joint	Column B i)Knee and Elbow ii)Between carpels iii)Humerus and Pectoral girdle iv)Atlas and axis	Column A a. Pivot joint b.Hinge joint	Column B (iv) Atlas and axis i)Knee and Elbow	knowledge

Q.6	Column A a.Sternum b.Glenoid cavity	Column B i)Synovial fluid ii)vertebrae iii)Pectoral girdle iv)Flat bones	Column A a. b.	Column B iv) iii)	Knowledge
Q.7	Column A a.Collar bones b.Floating ribs	Column B i)2 pairs ii)3 pairs iii)1pair iv)4 pairs	Column A a. b.	Column B iii) i)	Knowledge
Q.8	Column A a.Limbs b.vertebral column	Column B i)30 bones ii)36 bones iii)26 bones iv)31 bones	Column A a. b.	Column B i) iii)	Understanding
Q.9	Column A a.Red fibres b.White fibres	Column B i)Rich in mitochondria ii)Rich in golgi body iii)Few mitochondria iv)Rich in ribosome	Column A a. b.	Column B i) iii)	Understanding
Q.10	Column A a.Face b.skull	Column B i)22 ii)14 iii)24 iv)8	Column A a. b.	Column B ii) i)	Understanding
Q.11	Column A a.Femur b.Humerus	Column B i)Thigh ii)Upper arm iii)Scapula iv) Clavicle	Column A a. b.	Column B i) ii)	Understanding
Q.12	Column A a.Hip Bone b.Shoulder bone	Column B i)Pectoral girdle ii)Pelvic girdle iii)scapula iv)Humerus	Column A a. b.	Column B i) iii)	Knowledge

Q.13	Column A a.Skeletal muscle b.Visceral muscle	Column B i)Central nucleus ii)Peripheral nucleus iii)Enucleated iv)Scattered nucleus	Column A a. b.	Column B ii) i)	Understanding
Q.14	Column A a.Long bones b.Short bones	Column B i)Humerus,Radius,Ulna ii)Carples,tarsals iii)Skull bones,Sternum iv)Ear ossicles,Vertebrae	Column A a. b.	Column B i) ii)	Understanding
Q.15	Column A a.Flat bone b.Irregular bone	Column B i)Patella ii)Sternum iii)Ear ossicles iv)Radius	Column A A b.	Column B ii) iii)	Knowledge