

LOCOMOTION AND MOVEMENT

PREVIOUS QUESTIONS:

1. We move our hands while walking for (AIIMS-2000)
a) Faster movement b) *balancing* c) relieving tension d) increasing blood circulation
2. Involuntary muscle contraction is called (JIPMER-2003)
a) *Muscle sprain* b) muscle fatigue c) muscle spasm d) muscle twitch
3. Lactic acid deposition leads to (Wardha 2005)
a) tetany b) *muscle fatigue* c) muscle strain d) convulsions
4. The contractile protein of skeletal muscle involving ATPase activity is (CBSE-2006)
a) tropomyosin b) *myosin* c) α -actinin d) troponin
5. Sarcomere is distance between (Manipur-2006)
a) Two I-bands b) A and I bands c) *two Z-lines* d) Z and A bands
6. Globular protein which masks active sites on F-actin is (Kerala – 2007)
a) *troponin* b) tropomyosin c) myosin d) meromyosin
7. Bones become fragile due to (DPMT – 2007)
a) Arthritis b) *osteoporosis* c) gout d) none of the above
8. Statements:
 1. A bands are dark and contain myosin
 2. I bands are light and contain actin
 3. During action, A band contracts
 4. Part between two Z lines is sarcomere
 5. Central part of thin filament, not overlapped by thick filament is H zone (Kerala – 2007)
 - a) 1, 2 and 3 are correct, 4 and 5 are incorrect
 - b) 1, 3 and 5 are correct, 2 and 4 are incorrect
 - c) *1, 2 and 4 are correct, 3 and 5 are incorrect*
 - d) 1 and 2 are correct, 3, 4 and 5 are incorrect

9. During strenuous exercise, glucose is converted into (JIPMER – 2010)
 a) Glycogen b) pyruvic acid c) starch d) *lactic acid*

10. Skeletal muscles appear striated due to the presence of two characteristic proteins in alternating dark and light bands. Which of the following is correct match of the protein with its light refractive property and colour? (AIIMS – 2011)

Protein	Colour	Property
a. Myosin	Light	Anisotropic
b. Actin	Dark	Anisotropic
c. Myosin	Dark	Isotropic
d. Actin	Light	Isotropic

11. Correct order of ear ossicles in rabbit is (AFMC-2004)
 a) Incus, stapes, malleus b) *Malleus, incus, stapes*
 c) Malleus, stapes, incus d) Incus, malleus, stapes

12. An acromian process is characteristically found in the (CBSE-2005)
 a) Pelvic girdle of mammals b) skull of frog
 c) *Pectoral girdle of mammals* d) sperm of mammals

13. Which one the following pairs is correctly matched? (CBSE-2005)
 a) Cartilaginous joint – Skull joint b) Hinge joint – Between vertebrae
 c) Fibrous joint – Between phalanges d) *Gliding joint – Between two successive vertebrae*

14. Gout that leads to arthritis is associated with the abnormality of (pb PMT-2005)
 a) pyrimidine metabolism b) purine metabolism
 c) Fat metabolism d) *protein metabolism*

15. Some vertebrae in birds fuse to form (AFMC-2006)
 a) Sacrum b) *synsacrum* c) coccyx d) pygostyle

16. In the body, the membrane surrounding the bone is known as (AFMC-2006)
 a) *periosteum* b) endosteum c) perichondrium d) perimysium

17. A cricket player is fast chasing a ball in the field. Which one of the following groups of bones are directly contributing in the movement? (AIIMS-2006)
- a) Femur, malleus, tibia and metatarsals b) *Pelvis, ulna, patella, tarsals*
c) Sternum, femur, tibia, fibula d) Tarsals, femur, metatarsals, tibia
18. Human vertebral formula is (Manipur-2006)
- a) $C_4T_8L_4S_8C_8$ b) $C_7T_8L_5S_6C_7$ c) $C_7T_{12}L_5S_4C_5$ d) $C_7T_{12}L_5S_5C_4$
19. Which one of the following is a skull bone? (AFMC-2007)
- a) Coracoid b) Arytenoid c) Atlas d) *Pterygoid*
20. In human body, which of the following is anatomically correct? (CBSE-2007)
- a) *Floating ribs – 2 pairs* b) Collar bones – 3 pairs
c) Salivary glands – 1 pair d) Cranial nerves – 10 pairs
21. Hinge joint occurs between (MPPMT-2007)
- a) *humerus and radius-ulna* b) femur and pelvic girdle
c) humerus and pectoral girdle d) skull and atlas
22. Phalangeal/digital formula for human hand/foot is (M.H-2007)
- a) 0, 2, 2, 3, 3 b) 0, 2, 3, 3, 3 c) 2, 2, 3, 3, 3 d) 2, 3, 3, 3, 3
23. Obturator foramen occurs in (BHU-2007)
- a) *Pelvic girdle* b) pectoral girdle c) cranium d) vertebrae
24. Glenoid cavity is found in (DPMT-2007)
- a) pelvic girdle b) skull c) *pectoral girdle* d) sternum
25. Sesamoid bone (ossified tendon) is (AIIMS-2003 & MH-2007)
- a) *Patella* b) femur c) tarsal d) tibia
26. Which one of the following is a sesamoid bone? (AIIMS – 2009)
- a) Pelvis b) *Patella* c) Pterygoid d) Pectoral girdle
27. Pectoral girdle contains (AFMC – 2010)
- a) *Scapula and clavicle* b) radius and ulna
c) ilium and ischium d) maxilla and mandible

28. Which of the following is the correct description of a certain part of a normal human skeleton? (AIPMT – 2009)

- a) *Parietal bone and the temporal bone of the skull are joined by fibrous joint*
- b) First vertebra is axis which articulates with occipital condyles
- c) The 9th and 10th pairs of ribs are called floating ribs
- d) Glenoid cavity is a depression to which the thigh bone articulates

29. Which one the following pairs of structures is correctly matched with their correct description? (AIPMT – 2010)

Structures	Description
a. Tibia and fibula	Both form parts of knee joint
<i>b. Cartilage and cornea</i>	<i>No blood supply but do require oxygen for respiratory need</i>
c. Shoulder joint and elbow joint	Ball and socket type of joints
d. Premolars and molars	20 in all and 3 rooted

30. How many saddle joints can be seen in human body? (AFMC – 2011)

- a) 2
- b) 4
- c) 8
- d) 10