ANNUAL EVALUATION 2017 - 18 STANDARD IX BIOLOGY SCORING KEY

- 1 Trypsin
- 2. b. lactic acid
- 3. C a and d are correct
- 4. A. Myofilament, B. Fascicle
- 5 B. Emphysema due to smoking
- 6. Chromatin reticulamDiffusion Absorption of glycerol
- 8. A. Grana
 - B. ATP formation & splitting of water

Active transport - Absorption of salt

- 9. a. Kreb's cycle
 - b. Occurs in cytoplasm
 - c. 28 ATP are formed
 - d. Pyruvic acid & ATP
- 10. a. Nephritis
 - b. Leads to Kidney failure or uremia, Dialysis or Kidney transplantation.

11

Earthworm	Nephridia	Ammonia
Insect	Malpigian tubule	Uric acid

- The girth of Mango tree increases as it grows due to the presence of lateral meristems. Lateral meristem is absent in arecanut. So its girth does not increase.
- 13. a. Cytoplasmic division
 - b. A occurs in animal cell and B in plant cell. In Animal cell cytoplasm divides by the formation of furrow in plasma membrane but in plant cells, it is by cell plate formation.
- 14. a. Increases blood circulation all over the body Cardiac muscles become strong

- b. Exchange of respiratory gases become more effective Vital capacity increases
- c. More capillaries form in muscles. Increases the efficiency of muscles.

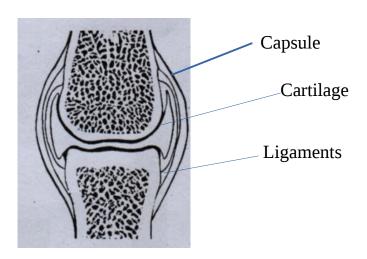
15

Skeletal Muscles (Striated Muscles)	Smooth Muscles (Non Striated
Cylindrical Muscle fibres	No striations
Seen along with the bones of leg	Make involuntary movements possible
Affect muscle fatigue	Seen in stomach

- 16. a. Phototropism
 - b. Geotropism
 - c. Chemotropism
 - 17. In Neck Pivot Joint and in Knee Hinge joint Pivot joint pivots on an axis Hinge Joint enables movement in one direction only.
 - 18. a. Appendicular skeleton
 - b. sternum
 - c. 24
 - d. Vertebral column
 - e. Pectoral girdle
 - f. 2
 - 19. a. C male gamete or spermD female gamete or ovum
 - b. Chromosome number reduces to half.
 - c. No, In male 4 sperms are formed from a single germinal cell. But in female one ovum is produced from a single germinal cell.
 - 20. They need consideration because
 - their muscles shrink and become weak
 - > rate of cell division decreases
 - availability of oxygen to the cells decreases
 - deterioration of cells increase

- > production of energy decreases
- ➤ efficiency of sense organs decreases
- 21. a. A. 120/80 mmHg
 - b. B. Do regular exercise, Avoid junk food, fatty food
 - c. Blood pressure is felt due to heart beat, when heart pumps blood into the arteries
- 22. Prophase c chromatin reticulum condenses to form chromosomes Metaphase a chromosomes get aligned at the equator of the cell
 - Anaphase b chromatids separate and daughter chromosomes move to each pole
 - Telophase e chromosomes change to chromatin reticulum and daughter nuclei are formed

23.



- (a Capsule
- (b) Cartilage
- (c) Ligaments