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 reticulam

Diffusion - Absorption of glycerol Active transport - Absorption of salt

- 8. A. Grana
 - B. ATP formation & splitting of water
- 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.

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Earthworm	Nephridia	Ammonia
Insect	Malpigian tubule	Uric acid

- 12 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.

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16.

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

- a. Phototropism
 - b. Geotropism
 - c. Chemotropism
- 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 sperm
 - D 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

23.

- 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



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