

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

1. Which of the following is not considered as synthesis function of liver?
(A) fibrinogen formation (B) albumin formation (C) urea formation (D) glycogen formation
2. According to endosymbiont hypothesis, tail in present day cells was developed by ingestion of
(A) cyanobacteria (B) spirochete (C) aerobic bacteria (D) mitochondria
3. Fertilizer and insecticides are similar because both increase :
(A) agriculture produce (B) increase fertility of soil
(C) increase soil pollution (D) both (A) and (C)
4. Which of the following is not true statement?
(A) Neisseria may cause eye infection in new borns
(B) Syphilis is caused by a spirochete
(C) Treponema pallidum can damage the joints
(D) Epicotyle growth is damaged by red light
5. What is not true about eutrophication?
(A) rise in phosphorus (B) depletion of oxygen (C) rise in oxygen level (D) death of small fishes
6. Which of the following is incorrectly matched?
(A) ichthyosis ↔ ocular albinism (B) Hypophosphatemia ↔ Hemophilia A
(C) Fragile X-syndrome ↔ Retinitis pigmentosa (D) lech-Nyhan syndrome ↔ hemophilia-B
7. Which one is the wrong pair among the following?
(A) sickle cell anemia ↔ β -chain of hemoglobin (B) penicillium ↔ one chromosome
(C) 7 methyle GTP ↔ 5' end of mRNA (D) UGA ↔ tryptophan
8. Assuming a man exhibits the phenotype of an x-linked recessive allele, which of the following is true about him, if he marries a woman whose father is normal
(A) all of his daughters will be carriers
(B) 50% of his daughters might pass the recessive allele to sons
(C) all of his sons exhibit the trait
(D) 50% of his sons might pass the recessive allele to daughters
9. About _____ % of energy is lost as heat as byproduct of respiration
(A) 50 – 60 (B) 60 – 70 (C) 70 – 90 (D) 80 – 90
10. Which of the following is wrong statement?
(A) adrenaline releases glucose from liver
(B) non- adrenaline releases glucose from liver
(C) sympathetic system is reinforced by epinephrine
(D) pupil dilates by parasympathetic system
11. At rest, the binding sites on each action chain are covered over by
(A) troponin (B) tropomyosin (C) cross bridges (D) myosin
12. The part of brain that controls breathing, heart beat rate and blood pressure is
(A) midbrain (B) pons (C) medulla (D) cerebellum
13. 44-autosomes plus 2-X-Chromosomes in homo sapiens means
(A) Down's syndrome (B) Turner's syndrome (C) Jacob syndrome (D) Normal female
14. What is benefit of using a retrovirus as s vector in gene therapy?
(A) it is not able to enter the cells (B) it incorporates foreign genes into the host chromosome
(C) it eliminates the unnecessary steps (D) both (B) and (C)
15. Indicate true statement :
(A) first amino acid in α -chain of hemoglobin is methionine
(B) at 6 position on N-terminal of β -chain of hemoglobin is valine
(C) AGA condon specifies Arginine in mitochondria
(D) histones are negatively charged proteins
16. Indicate the false statement :
(A) aging is caused by negative physiological changes
(B) inhibitory effect of apical bud is caused due to auxins
(C) higher supply of Oxygen inhibits growth of plants
(D) red light favors division of cells in plants
17. Skeletal muscles and cardiac muscles are different because cardiac muscles are
(A) multinucleated (B) striated (C) branched (D) voluntary