

## ZOOLOGY

1. Sleeping sickness is transmitted by:
  - (A) Anopheles Stephensi
  - (B) Culex fatigans
  - (C) Glossina palpalis
  - (D) Phlebotomus argentipes
  
2. Hookworm causes the disease :
  - (A) Ancylostomiasis
  - (B) Ascariasis
  - (C) Entorobiasis
  - (D) Elephantiasis
  
3. .... is an example of divergent evolution.
  - (A) Batesian mimicry
  - (B) Adaptive radiation
  - (C) Industrial melanism
  - (D) Wings of insects and bats
  
4. The male ..... is not involved in the care of its young.
  - (A) Sea-horse
  - (B) dung beetle
  - (C) moorhen
  - (D) mid-wife toad
  
5. In polarized cells (e.g. epithelial cells) internalized receptor across the cell to the opposite domain of the plasma membrane, a process is called:
  - (A) Phagocytosis
  - (B) Transcytosis
  - (C) Pinocytosis
  - (D) Endocytosis
  
6. Which of the following is an example of numerical change in chromosome number ?
  - (A) Down's syndrome
  - (B) Progeria syndrome
  - (C) Xeroderma pigmentosum
  - (D) Parkinson's disease

7. The principle of genetic linkage refers to:
- (A) The fact that the different alleles for a given gene will be located at the same position in a chromosome
  - (B) The discovery that multiple genes are responsible for some traits
  - (C) The observation that some genes will be inherited together if they are located in the same chromosome
  - (D) The observation that darkly staining regions of chromosomes do not contain genes
8. Which of the following has greater affinity for hemoglobin ?
- (A) Carbon monoxide
  - (B) Carbon dioxide
  - (C) Oxygen
  - (D) Nitrogen
9. Patau syndrome is due to :
- (A) Trisomy of chromosome 13
  - (B) Trisomy of chromosome 18
  - (C) Trisomy of chromosome 21
  - (D) Robertsonian translocation
10. Aldolase is an enzyme that catalyzes conversion of fructose 1,6 bisphosphate to glyceraldehyde 3 phosphate and dihydroxy acetone phosphate. It belongs to which of the following enzyme class ?
- (A) Oxidoreductases
  - (B) Ligases
  - (C) Hydrolase
  - (D) Lyases



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