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- 8377 QUESTION PAPER - STREAM/SLU
53. Animal cells after removal of nuclei still contained DNA. The source of this DNA is
(A) nucleosomes (B) mitochondria (C) peroxisomes (D) lysosome
Sol. Mitochondria have circular DNA.
Ans. (B)
54. Which one of the following combinations is found in DNA?
(A) Guanine and guanine (B) Guanine and cytosine
(C) Guanine and cytosine (D) Adenine and guanine
Sol. Guanine and Cytosine are nitrogenous bases of DNA.
Ans. (C)
55. Which one of the following is NOT a mode of asexual reproduction?
(A) Binary fission (B) Multiple fission (C) Budding (D) Conjugation
Sol. Conjugation involves transfer of DNA from one microbe to another (e.g. Bacteria)
Ans. (D)
56. Which one of the following class of animals constitutes the largest biomass on earth?
(A) Insects (B) Fish (C) Mammals (D) Reptiles
Ans. (A)
57. In the digestive system, the pH of the stomach and the intestine, respectively are,
(A) alkaline, acidic (B) acidic, alkaline (C) acidic, neutral (D) acidic, acidic
Sol. pH stomach = 1.5 - 2.5
Intestine = 7.4 - 7.8
Ans. (B)
58. The major nitrogenous excretory product in mammals is,
(A) amino acids (B) ammonia (C) urea (D) uric acid
Sol. NH₃ is converted to urea in hepatocytes.
Ans. (C)
59. Which of the following plant traits (characters) is NOT an adaptation to dry (Xeric) habitats?
(A) Sunken stomata on leaves
(B) Highly developed root system
(C) Thin epidermis without a cuticle on stem and leaves
(D) Small leaves and photosynthetic stems
Sol. Thick cuticle prevent loss of water
Ans. (C)
60. Biological diversity increases with the productivity of an ecosystem. In which of the following habitats do we see the greatest diversity of species?
(A) Tropical dry grasslands
(B) Temperate deciduous forests
(C) Alpine grasslands
(D) Tropical evergreen forests
Ans. (D)

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