Biology Model Question Paper - 9

Question 1 : A large quantity of fluid is filtered every day by the nephrons in the kidneys. Only about 1% of it is excreted as urine. The remaining 99% of the filtrate
(A) is lost as sweat
(B) is stored in the urinary bladder
(C) is reabsorbed into the blood
(D) gets collected in the renal pelvis

Answer: (C)

Question 2 : With reference to enzymes, which one of the following statements is true?
(A) Apoenzyme = Holoenzyme + Coenzyme
(B) Holoenzyme = Apoenzyme + Coenzyme
(C) Coenzyme = Apoenzyme + Holoenzyme
(D) Holoenzyme = Coenzyme – Apoenzyme

Answer: (B)

Question 3 : With reference to enzymes, turnover number means _____.
(A) the number of substrate molecules that a molecule of an enzyme converts into products per second.
(B) the number of substrate molecules that a molecule of an enzyme converts into products per hour.
(C) the number of substrate molecules that a molecule of an enzyme converts into products per day.
(D) the number of substrate molecules that a molecule of an enzyme converts into products per minute.

Answer: (D)

Question 4 : Who wrote the famous book 'Origin of Species'?
(A) Lamarck
(B) Darwin
(C) De Vries
(D) Mendel

Answer: (B)

Question 5 : Which the following is a gastrointestinal hormone?
(A) Prolactin
(B) Enterokinase
(C) GH
(D) FSH

Answer: (B)

Question 6 : Which substance is in higher concentration in blood than in glomerular filtrate?
(A) Glucose

(B) Urea
(C) Plasma proteins
(D) Water

Answer: (C)

Question 7 : Which statement about photosynthesis is false?
(A) Photosynthesis is a redox process in which water is oxidised and carbon dioxide is reduced.
(B) The enzymes required for carbon fixation are located only in the grana of chloroplasts.
(C) In green plants, both PS I and PS II are required for the formation of NADPH + H^+.
(D) The electron carriers involved in photophosphorylation are located on the thylakoid membranes

Answer: (B)

Question 8 : Which stage of malarial parasite is infective to man?
(A) Gametocyte
(B) Merozoite
(C) Cryptomerozoite
(D) Sporozoite

Answer: (D)

Question 9 : Which one of the following triplet codons is a chain termination codon?
(A) UGU
(B) AAU
(C) UUG
(D) UAG

Answer: (D)

Question 10 : Which one of the following theories on the origin of life is mostly accepted?
(A) Special creation
(B) Steady state
(C) Panspermia
(D) Chemical origin

Answer: (D)

Question 11 : Which one of the following synthetic growth regulators is used to promote synchronized flowering in pineapple?
(A) Phenylmercuric Acetate

(B) Benzyl Aminopurine
(C) 2-chloroethylphosphonic acid
(D) none of these

Answer: (C)

Question 12 : Which one of the following statements about the events of noncyclic photophosphorylation is NOT correct?
(A) ATP and NADPH are not produced.
(B) Photolysis of water takes place.
(C) O2 is released.
(D) none of these

Answer: (A)

Question 13 : Which one of the following statement is NOT correct?
During Protein synthesis, _____.
(A) Tyrosine is coded by UAU and UAC codons.
(B) Cysteine is coded by UGU and UGC codons.
(C) UGG codon codes for Tryptophan.
(D) UAA codon codes for Lysine.

Answer: (D)

Question 14 : Which one of the following species of earthworm is NOT recommended for vermicomposting?
(A) Eisenia fetidae
(B) Eudrilus eugeniae
(C) Pheretima Posthuma
(D) Perionyx excavatus

Answer: (C)

Question 15 : Which one of the following reactions is an example of oxidative decarboxylation?
(A) Conversion of succinate to fumerate
(B) Conversion of fumerate to malate
(C) Conversion of private to acetyl CoA
(D) Conversion of citrate to isocitrate

Answer: (C)