

Biology Model Question Paper - 4

Question 1 : Succus entericus is secreted by _____.

- (A) Brunner's glands
- (B) Auerbach's plexus
- (C) Crypts of Lieberkuhn
- (D) Peyer's patches

Answer: (C)

Question 2 : Structural lipids of cell membrane

- (A) Simple lipid
- (B) Chromolipids
- (C) Steroid
- (D) Phospholipids

Answer: (D)

Question 3 : Structural element of Chromatin is

- (A) Histone
- (B) Acid protein and DNA
- (C) Nuclear matrix
- (D) Nucleosomes

Answer: (D)

Question 4 : Sporopollenin, a chemical substance is found in _____.

- (A) Exine of pollen grain
- (B) Intine of pollen grain
- (C) Tapetum of anther
- (D) Endothecium of anther

Answer: (A)

Question 5 : Spindle fibre is made up of

- (A) Humulin
- (B) Intermediate filament
- (C) Flagellin
- (D) Tubulin

Answer: (D)

Question 6 : Some important events in the human female reproductive cycle are given below. Arrange the events in a proper sequence.

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A - Secretion of FSH, B - Growth of corpus luteum, C - Growth of the follicle and oogenesis, D - Ovulation, E - Sudden increase in the levels of LH

- (A) A → C → E → D → B
- (B) A → D → C → E → B
- (C) B → A → C → D → E
- (D) C → A → D → B → E

Answer: (A)

Question 7 : Silk produced by Antheraea mylitta is also called

- (A) Muga silk
- (B) Tassar silk
- (C) Eri silk
- (D) Mysore silk

Answer: (B)

Question 8 : Ribose sugar is present in

- (A) RNA only
- (B) RNA polymerase and ATP
- (C) RNA and ATP
- (D) RNA polymerase, RNA and ATP

Answer: (C)

Question 9 : Restriction enzymes are used to cut

- (A) Single stranded RNA
- (B) Double stranded DNA
- (C) Single stranded DNA
- (D) Double stranded RNA

Answer: (B)

Question 10 : Read the following statements A and B.

A: Many organs of aquatic plants float in water.

B: Large air gaps are present in the collenchyma tissues of lotus leaf.

Select the correct answer.

- (A) Statement A is correct and B is wrong
- (B) Statement B is correct and A is wrong
- (C) Statements A and B both are correct
- (D) Statements A and B both are wrong

Answer: (A)

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Question 11 : Pyruvate dehydrogenase complex, needed for the conversion of Pyruvic acid to Acetyl CO-A is located in _____.

- (A) Intermembranal space of mitochondria
- (B) Matrix of mitochondria
- (C) Cytoplasm
- (D) Grana of chloroplast

Answer: (B)

Question 12 : Stoma opens when

- (A) Guard cells swell by endosmosis due to influx of hydrogen ions (protons)
- (B) Guard cells swell by endosmosis due to efflux of potassium ions.
- (C) Guard cells swell due to a decrease in their water potential.
- (D) Guard cells swell due to an increase in their Water potential.

Answer: (D)

Question 13 : Pyramid of energy in ecosystems is

- (A) Always upright
- (B) Always inverted
- (C) Mostly upright
- (D) Mostly inverted

Answer: (A)

Question 14 : Ptyalin is inactivated by a component of gastric juice known as

- (A) Pepsin
- (B) Mucus
- (C) Rennin
- (D) HCl

Answer: (D)

Question 15 : Some of the steps involved in the production of Humulin are given below. Choose the correct sequence.

- i) Synthesis of gene (DNA) for human insulin artificially.
- ii) Culturing recombinant E.coli in bioreactors.
- iii) Purification of humulin.
- iv) Insertion of human insulin gene into plasmid.
- v) Introduction of recombinant plasmid into E.coli.
- vi) Extraction of recombinant gene product from E.coli.

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- (A) i, iii, v, vi, ii, iv
- (B) ii, i, iv, iii, v, vi
- (C) iii, v, ii, i, vi, iv
- (D) i, iv, v, ii, vi, iii

Answer: (D)



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