Unit 3 - Week 2

Assignment 2

Due on 2023-09-11, 23:59 IST.

1. Consider the following:
   a. Linear regression
   b. Non-linear regressions
   c. Log-Log Smoothing
   d. Polynomial regression

   Which of the above mentioned features play an important role in the process of self-assembly?

   i. All of the above
   ii. 1, 2 and 4 only
   iii. 1, 2 and 3 only
   iv. 1 and 4 only
   v. All the above except 3

   No. the answer is incorrect.

   Accepted Answers:
   v. All the above except 3

2. Consider the following statements:
   a. A always binds with C
   b. B always binds with C
   c. A always binds with T
   d. A always binds with G
   e. A always binds with T and G
   f. An always binds with C and T
   g. An always binds with T and A

   No. the answer is incorrect.

   Accepted Answers:
   a, b, c, d, f, g

3. Consider the following features in DNA:
   a. the Chargaff’s rule
   b. the Watson-Crick base pairing principle
   c. base pairing in DNA

   No. the answer is incorrect.

   Accepted Answers:
   a, b, c

4. Consider the following conditions:
   a. The changes in the structure of DNA
   b. The changes in the sequence of DNA

   No. the answer is incorrect.

   Accepted Answers:
   a, b

5. Consider the following statements:
   a. Lysosomes can carry very hydrophobic drugs and not hydrophilic drugs.
   b. Lysosomes are cellular organelles involved in white blood cells.
   c. Lysosomes are involved in the process of autophagy.
   d. Lysosomes are involved in the process of phagocytosis.
   e. Lysosomes are involved in the process of enzyme attachment.

   No. the answer is incorrect.

   Accepted Answers:
   a, b, c, d, e

6. Consider the following statements:
   a. Lysosomes have a single type of enzyme.
   b. Lysosomes have multiple types of enzymes.

   No. the answer is incorrect.

   Accepted Answers:
   a, b

7. Choose the correct sequence of five of a mammalian cell.
   a. Mitochondria
   b. Lysosomes
   c. Endosomes
   d. Ribosomes
   e. ER

   No. the answer is incorrect.

   Accepted Answers:
   a, b, c, d, e

8. Consider the following conditions:
   a. The process of energy transfer between two light-sensitive molecules is known as the photosynthesis of energy transfer.
   b. The process of energy transfer in a cell.

   No. the answer is incorrect.

   Accepted Answers:
   a, b

9. Consider the following conditions:
   a. The process of energy transfer between two light-sensitive molecules is known as the photosynthesis of energy transfer.
   b. The process of energy transfer in a cell.

   No. the answer is incorrect.

   Accepted Answers:
   a, b

10. Consider the following conditions:
   a. The process of energy transfer between two light-sensitive molecules is known as the photosynthesis of energy transfer.
   b. The process of energy transfer in a cell.

   No. the answer is incorrect.

   Accepted Answers:
   a, b