Assignment 12

This is due for submission by the due date indicated. As per your records you have not submitted this assignment.

Due on 2020-13-09, 23:59 IST.

1. Fill in the blanks.
   (Note: One or more specific answers only.)

   1. _______ stage of development does not allow flexibility.

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   2. _______ tests involve multiple phenotypes arising from the same genotype in different environments.

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   3. _______ is/are feature(s) characteristic of a genome other than to be seen but produced environmentally rather than genetically.

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   5. Which of the following statements are TRUE in the context of genetic assimilation?

   - Phenotype: characteristics produced directly in response to environmental influences
   - Genotypes: characteristics produced indirectly in response to environmental influences
   - Phenotype is expressed in the absence of an external stimulus
   - Phenotype is expressed only in the presence of an external stimulus

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   6. Which of the following are NOT advantages of developmental plasticity, contributing to the genetic assimilation of receptors?

   - The phenotype is maintained in the population
   - The phenotype is not present in the population
   - The phenotype is random
   - The phenotype is clonal

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   7. Identify phylogenetically consistent that are commonly observed in development of organisms.

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   9. Which of the following statements are TRUE with respect to organismal inheritance systems?

   - Evolutionary selection of traits is a method for organismal inheritance
   - The environment-induced phenotypes are manifested and are displayed in a subsequent generation even in the absence of the original environmental factors
   - There was no correlation between the type of gene of the phenotype and the environmental factors that caused differences in phenotype in the plant
   - The environment-induced phenotypes are random, i.e., changes in phenotype due to change in environment occur randomly.

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   10. Which of the following is correct regarding the original selection diffusion model?

   - It was used to explain the evolution of evolutionary information
   - It was used to explain the environment for evolution of organisms
   - It was used to explain the change in traits of an organism in response to environmental factors
   - It was used to explain the variability in selection of traits within a developmental context.

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   12. Suspension of leaf growth is abnormally segmented in eukaryotes due to:

   - Heat damage
   - Injuries to the process of natural selection
   - Physical constraints
   - Morphological constraints

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]

   13. Which of the following explains the frequent occurrence of an ectopic cell death and embryonic cancer?

   - Genes involved in tissue patterning also play a role in the regulation of stem cell proliferation
   - Physiological factors playing a role in development and evolution
   - Extra cellular tissue directly causes embryonic death
   - Tissue loss caused indirectly through excess cell death.

   No. the person is incorrect.
   Accepted.
   [Type: String/Textbox]