**Review Test Submission: lab4Enzyme**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (0C4A) - General Biology I |
| **Test** | lab4Enzyme |
| **Started** | 3/2/13 8:25 AM |
| **Submitted** | 3/2/13 8:33 AM |
| **Status** | Completed |
| **Score** | 10 out of 10 points |
| **Time Elapsed** | 8 minutes out of 25 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Enzymes act as biological:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  catalysts | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  catalysts | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Enzymes speed up biochemical reactions by:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  lowering the activation energy of the reaction | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  lowering the activation energy of the reaction | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following has an effect on the rate of enzyme-catalyzed reactions?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  all of the above | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  all of the above | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | When adding pineapple to a gelatin dessert, you would recommend using\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  canned pineapple | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  canned pineapple | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which component of the following reaction is the enzyme? CO2 + H2O + carbonic anhydrase →HCO3- + H+ + carbonic anhydrase  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  carbonic anhydrase | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  carbonic anhydrase | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which component(s) of the following reaction is (are) the substrates? 2H2O2 + catalase -> 2H2O + O2 + catalase  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  H2O2 | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  H2O2 | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Catalase works best at pH 7 while bromelin at pH 5. Based on this information, how will you conclude that enzymes function best at which pH?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  The optimal pH depends on the particular enzyme | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  The optimal pH depends on the particular enzyme | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The optimum pH for the catalase in the potato juice is neutral and the optimum temperature is at 370C. Which of the followings should have the fastest reaction?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  H2O2 and potato juice at 370C and pH 7 | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  H2O2 and potato juice at 370C and pH 7 | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which curve represents the behavior of an enzyme taken from a bacterium that lives in hot springs at temperatures of 70°C or higher?  http://learn.vccs.edu/courses/1/NV280.BIO.101.0C4A.SP13/ppg/respondus/exam_lab4Enzyme/img512535ff1.gif  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  curve 3 | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  curve 3 | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which curve was most likely generated from analysis of an enzyme from a human stomach where conditions are strongly acid?  http://learn.vccs.edu/courses/1/NV280.BIO.101.0C4A.SP13/ppg/respondus/exam_lab4Enzyme/img512535ff2.gif  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  curve 4 | | Correct Answer: | http://learn.vccs.edu/images/ci/icons/check.gif  curve 4 | |  |  |  |

Saturday, March 2, 2013 8:33:54 AM EST

[OK](javascript:launch('/webapps/blackboard/content/listContent.jsp?content_id=_37696835_1&course_id=_551488_1&nolaunch_after_review=true');)

Chapter 8 pre lecture

**Review Test Submission: w8**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (025A) - General Biology I |
| **Test** | w8 |
| **Started** | 3/30/13 5:09 AM |
| **Submitted** | 3/30/13 6:11 AM |
| **Status** | Completed |
| **Score** | 19 out of 19 points |
| **Time Elapsed** | 1 hour, 1 minute. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Chromatin consists of \_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  DNA and protein | | Correct Answer: | check  DNA and protein | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Prior to cell division, each chromosome replicates or duplicates its genetic material. The resulting \_\_\_\_\_\_ are connected by structure A called \_\_\_\_\_\_  img5153613a4  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  sister chromatids…centromere | | Correct Answer: | check  sister chromatids…centromere | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The letter B indicates \_\_\_\_\_.  img5153613a1  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  a nucleosome | | Correct Answer: | check  a nucleosome | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which eukaryotic cell structure physically moves the cell's chromosomes during cell division?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  the mitotic spindle | | Correct Answer: | check  the mitotic spindle | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The key enzyme responsible for replicating DNA is \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  DNA polymerase | | Correct Answer: | check  DNA polymerase | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The DNA strand being produced continuously in the 5' --> 3' direction is called the \_\_\_\_\_ strand.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  leading | | Correct Answer: | check  leading | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Any change in the nucleotide sequence of DNA is called \_\_\_\_\_\_\_. **(get answers for Q7-10 in chapter 7)**  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  a mutation. | | Correct Answer: | check  a mutation. | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In a "missense" mutation:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  The mutated codon causes a change in the amino acid specified | | Correct Answer: | check  The mutated codon causes a change in the amino acid specified | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A frameshift mutation could result from  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  either an insertion or a deletion of a base. | | Correct Answer: | check  either an insertion or a deletion of a base. | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | An enzyme that "cuts" DNA at a specific sequence of nucleotide bases such as shown in the following figure is called \_\_\_\_\_.  img5153613a2  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  restriction enzyme | | Correct Answer: | check  restriction enzyme | |  |  |  |

* **Question 11**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following items are required to carry out a PCR?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  all of the above | | Correct Answer: | check  all of the above | |  |  |  |

* **Question 12**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Gel electrophoresis separates DNA fragments on the basis of differences in their \_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  length | | Correct Answer: | check  length | |  |  |  |

* **Question 13**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The sequence of events from one cell division to the next describes the \_\_\_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  cell cycle | | Correct Answer: | check  cell cycle | |  |  |  |

* **Question 14**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following is part of the interphase of the cell cycle?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  S phase | | Correct Answer: | check  S phase | |  |  |  |

* **Question 15**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Chromosomes are duplicated during \_\_\_\_ phase.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  S | | Correct Answer: | check  S | |  |  |  |

* **Question 16**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The correct sequence for the phases of mitosis is:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Prophase - prometaphase - metaphase - anaphase – telophase | | Correct Answer: | check  Prophase - prometaphase - metaphase - anaphase – telophase | |  |  |  |

* **Question 17**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Cytokinesis refers to \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  division of the cytoplasm | | Correct Answer: | check  division of the cytoplasm | |  |  |  |

* **Question 18**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | During cytokinesis, as shown in the following figure, plant cells develop a cell plate instead of a cleavage furrow. True or false?    img5153613a3  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check True | | Correct Answer: | check True | |  |  |  |

* **Question 19**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Apoptosis is also called:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Programmed cell death | | Correct Answer: | check  Programmed cell death | |  |  |  |

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (025A) - General Biology I |
| **Test** | Hw9 |
| **Started** | 4/9/13 7:51 PM |
| **Submitted** | 4/9/13 8:26 PM |
| **Status** | Completed |
| **Score** | 18 out of 20 points |
| **Time Elapsed** | 35 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following is not true about telomeres?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  They produce telomerase. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  They produce telomerase. | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Immune system cells, activated by an infection, will leave a non-dividing phase and re-enter the sequence of events in the cell cycle that leads to cell division. What would be the correct sequence of cell division?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  G0, G1, S, G2, M | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  G0, G1, S, G2, M | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | As a patch of scraped skin heals, the cells fill in the injured area but do not grow beyond that. This is an example of \_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  contact inhibition. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  contact inhibition. | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following is true concerning cancer cells?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  All of the above | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  All of the above | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In order for a cell to become cancerous, oncogenes must be \_\_\_ and tumor suppressors \_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  activated, inactivated | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  activated, inactivated | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | After a visit to a specialist, Dan was diagnosed with liver cancer. Six months later additional tumors were found in his stomach and small intestine. This is an example of \_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  metastasis | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  metastasis | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Why is it essential that meiosis produce haploid cells?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  To prevent the number of chromosomes from doubling each generation | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  To prevent the number of chromosomes from doubling each generation | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Homologous chromosomes refer to \_\_\_\_\_\_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  a pair of chromosomes that carry genes controlling same characters, one derived from the mother and the other from the father. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  a pair of chromosomes that carry genes controlling same characters, one derived from the mother and the other from the father. | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | From the descriptions below, which of the following is the order that most logically illustrates a sequence of meiosis?  I. formation of four new nuclei, each with half the chromosomes present in the parental nucleus II. alignment of homologue pairs at the equator of cell III. separation of sister chromatids IV. separation of the homologue pairs V. synapsis; chromosomes moving towards the middle of the cell in pairs  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  V, II, IV, III, I | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  V, II, IV, III, I | |  |  |  |

* **Question 10**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | Which of the following is true about this cell? https://learn.vccs.edu/courses/1/NV280.BIO.101.025A.SP13/ppg/respondus/exam_Hw9/img515cbecd1.jpg  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/x.gif  It is at the start of mitosis. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  It is at the start of meiosis II | |  |  |  |

* **Question 11**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | What is the best reason for concluding that this cell is in Anaphase II? https://learn.vccs.edu/courses/1/NV280.BIO.101.025A.SP13/ppg/respondus/exam_Hw9/img515cbecd2.jpg  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  sister chromatids are separating | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  sister chromatids are separating | |  |  |  |

* **Question 12**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Meiosis I separates \_\_\_\_; meiosis II separates \_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  homologous pairs, sister chromatids | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  homologous pairs, sister chromatids | |  |  |  |

* **Question 13**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Identify the meiotic stage represented by following diagrams A and B from a cell with 2n=4.     https://learn.vccs.edu/courses/1/NV280.BIO.101.025A.SP13/ppg/respondus/exam_Hw9/img515cbecd3.gif  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  anaphase I…anaphase II | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  anaphase I…anaphase II | |  |  |  |

* **Question 14**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Mitosis results in the formation of \_\_\_\_\_; meiosis results in the formation of \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  two diploid cells … four haploid cells | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  two diploid cells … four haploid cells | |  |  |  |

* **Question 15**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following is a key difference between meiosis and mitosis?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Synapsis occurs. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Synapsis occurs. | |  |  |  |

* **Question 16**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | What is the result of recombination (crossing over) during meiosis?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  It creates chromosomes with new combinations of both paternal and maternal alleles | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  It creates chromosomes with new combinations of both paternal and maternal alleles | |  |  |  |

* **Question 17**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | Genetic diversity is enhanced by \_\_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/x.gif  independent orientation of chromosomes at prophase I. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  random fertilization. | |  |  |  |

* **Question 18**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A karyotype (a chromosome display) would be **unable** to determine \_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  eye color | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  eye color | |  |  |  |

* **Question 19**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Down syndrome can be the result of \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  nondisjunction of chromosome 21 during meiosis | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  nondisjunction of chromosome 21 during meiosis | |  |  |  |

* **Question 20**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The exchange of genetic materials between nonhomologous chromosomes is called \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  translocation | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  translocation | |  |  |  |

Tuesday, April 9, 2013 8:26:55 PM EDT

# Review Test Submission: Lab10PS

## Content

|  |  |
| --- | --- |
| User | Casey Arman Carnnia |
| Course | (Spring 2013) BIO 101 (0C4A) - General Biology I |
| Test | Lab10PS |
| Started | 4/9/13 8:31 PM |
| Submitted | 4/9/13 8:37 PM |
| Status | Completed |
| Score | 10 out of 10 points |
| Time Elapsed | 6 minutes out of 25 minutes. |
| Instructions |  |

### Question 1

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Leaf is green because chlorophyll molecules do NOT\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  absorb green light | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  absorb green light | |  |  |  |

### Question 2

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The blue light photon has a wavelength of 475 nm, the orange light photon has a wavelength of 590 nm,  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  photon of blue light carry more energy | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  photon of blue light carry more energy | |  |  |  |

### Question 3

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Only lights that can be \_\_\_\_\_ are useful for photosynthesis  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  absorbed | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  absorbed | |  |  |  |

### Question 4

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Photosynthesis is driven by the \_\_\_\_\_\_\_\_ light spectrum.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  visible | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  visible | |  |  |  |

### Question 5

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Based on the absorption spectrum of plant leaf pigments, if I want to grow some plants in a growth chamber located in a closet, which light bulb would be best for growing the plants?    https://learn.vccs.edu/courses/1/NV280.BIO.101.0C4A.SP13/ppg/respondus/exam_Lab10PS/img515cbfc81.jpg  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  A light bulb that emits a light wavelength of 430 nm | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  A light bulb that emits a light wavelength of 430 nm | |  |  |  |

### Question 6

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Some of the spinach disks are place in the NaHCO3 solution. The purpose of using NaHCO3 was to  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  provide CO2 needed in the photosynthesis | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  provide CO2 needed in the photosynthesis | |  |  |  |

### Question 7

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | For measuring photosynthesis in spinach leaves, why does the disk floating indicate that photosynthesis occurred?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Disk floating indicates that O2 is produced | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Disk floating indicates that O2 is produced | |  |  |  |

### Question 8

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The O2 produced during photosynthesis comes from \_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  water | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  water | |  |  |  |

### Question 9

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Based on the following data, what can you conclude regarding the effectiveness of different wavelengths of light on photosynthesis?  https://learn.vccs.edu/courses/1/NV280.BIO.101.0C4A.SP13/ppg/respondus/exam_Lab10PS/img515cbfc82.gif  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  All of the above | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  All of the above | |  |  |  |

### Question 10

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | What factors might affect the rate of photosynthesis?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  all of the above | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  all of the above | |  |  |  |

Tuesday, April 9, 2013 8:37:56 PM EDT

Chapter 10 pre-lecture

# Review Test Submission: w10

## Content

|  |  |
| --- | --- |
| User | Casey Arman Carnnia |
| Course | (Spring 2013) BIO 101 (025A) - General Biology I |
| Test | w10 |
| Started | 4/11/13 9:52 PM |
| Submitted | 4/11/13 10:03 PM |
| Status | Completed |
| Score | 14 out of 15 points |
| Time Elapsed | 11 minutes. |
| Instructions |  |

### Question 1

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Varieties of plants in which self-fertilization produces offspring that are identical to the parents are referred to as \_\_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  true-breeding | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  true-breeding | |  |  |  |

### Question 2

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In the study of genetics, the offspring of the P generation is referred to as the:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  the F1 generation | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  the F1 generation | |  |  |  |

### Question 3

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Mendel called a trait that is masked:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  recessive | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  recessive | |  |  |  |

### Question 4

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Genes often occur in alternative forms called alleles.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif True | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif True | |  |  |  |

### Question 5

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | If the two alleles for a particular gene are identical, the gene pair is:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  homozygous | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  homozygous | |  |  |  |

### Question 6

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The physical traits of an organism are its \_\_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  phenotype. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  phenotype. | |  |  |  |

### Question 7

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The most common phenotype in a population is referred to as:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  the wild type | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  the wild type | |  |  |  |

### Question 8

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following is a genotype?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  All of the above | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  All of the above | |  |  |  |

### Question 9

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The fact that the two alleles of each gene are packaged into separate gametes; that they move apart from each other during gamete formation is Mendel's:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Law of segregation | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Law of segregation | |  |  |  |

### Question 10

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The fact that during gamete formation, the segregation of alleles for a gene on one chromosome does not influence the segregation of alleles for a gene on another chromosome is Mendel's:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Law of independent assortment | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Law of independent assortment | |  |  |  |

### Question 11

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The following picture is called \_\_\_\_\_. https://learn.vccs.edu/courses/1/NV280.BIO.101.025A.SP13/ppg/respondus/exam_w10/img5166061e1.jpg  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Punnett square | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  Punnett square | |  |  |  |

### Question 12

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | A person with ABO blood illustrates the principle of \_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/x.gif  incomplete dominance. | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  codominance. | |  |  |  |

### Question 13

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A child with the genotype IAi has type \_\_\_\_\_\_\_\_ blood.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  A | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  A | |  |  |  |

### Question 14

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A single gene may affect more than one trait and this is called:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  pleiotropy | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  pleiotropy | |  |  |  |

### Question 15

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The individual 1 shown in the following pedigree represents \_\_\_\_\_: https://learn.vccs.edu/courses/1/NV280.BIO.101.025A.SP13/ppg/respondus/exam_w10/img5166061e2.gif  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  a normal female | | Correct Answer: | https://learn.vccs.edu/images/ci/icons/check.gif  a normal female | |  |  |  |

Thursday, April 11, 2013 10:03:40 PM EDT

Post lecture chapter 10

HW10

**Review Test Submission: Hw10**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (025A) - General Biology I |
| **Test** | Hw10 |
| **Started** | 4/17/13 8:20 PM |
| **Submitted** | 4/17/13 10:01 PM |
| **Status** | Completed |
| **Score** | 20 out of 20 points |
| **Time Elapsed** | 1 hour, 40 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following statements regarding cross-breeding and hybridization is false?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  The hybrid offspring of a cross are the P1 generation. | | Correct Answer: | check  The hybrid offspring of a cross are the P1 generation. | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Mendel crossed true-breeding purple-flowered plants with true-breeding white-flowered plants, and all of the resulting offspring produced purple flowers. The allele for purple flowers is \_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  dominant | | Correct Answer: | check  dominant | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | If one allele is not phenotypically expressed in the presence of another, we say that it is a(an) \_\_\_\_\_\_\_ allele.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  recessive | | Correct Answer: | check  recessive | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A plant with the genotype AABbcc is \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  homozygous at two loci | | Correct Answer: | check  homozygous at two loci | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In one plant, the alleles A, B, and C are completely dominant to the alleles a, b, and c. A plant with the genotype AABbcc will have the same phenotype as the plant with the genotype \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  AaBBcc | | Correct Answer: | check  AaBBcc | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | When you prepare a Punnett square as a tool to solve a genetics problem, what do the letters you write in the boxes represent?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  the genotypes of the offspring. | | Correct Answer: | check  the genotypes of the offspring. | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In hamsters, black coat color (B) is dominant to white coat color (b). A homozygous black hamster is mated with a heterozygous black hamster. What will be the genotypes and phenotypes of their offspring?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  BB, Bb; all black | | Correct Answer: | check  BB, Bb; all black | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | If an organism expresses the dominant phenotype:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  it may carry a recessive allele | | Correct Answer: | check  it may carry a recessive allele | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Based on the results of this cross, you determine that \_\_\_\_\_.     img516608981  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  round eyes are dominant to vertical eyes, and the absence of a tooth is dominant to the presence of a tooth | | Correct Answer: | check  round eyes are dominant to vertical eyes, and the absence of a tooth is dominant to the presence of a tooth | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In a situation in which genes assort independently, what is the ratio of the gametes produced by an AaBB individual?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  AB : aB =1:1 | | Correct Answer: | check  AB : aB =1:1 | |  |  |  |

* **Question 11**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In peas, purple flower color (P) is dominant to white flower color (p).Suppose we have a pea plant with purple flowers. How might you determine whether the plant is homozygous (PP) or heterozygous (Pp)?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Perform a testcross: cross the plant with a true-breeding white flower plant. | | Correct Answer: | check  Perform a testcross: cross the plant with a true-breeding white flower plant. | |  |  |  |

* **Question 12**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Martians have 3 possible genotypes and phenotypes for their antennas: there are long antennas (AA), medium antennas (Aa), and short antennas (aa). This is a demonstration of:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  incomplete dominance | | Correct Answer: | check  incomplete dominance | |  |  |  |

* **Question 13**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | If your blood type is B and your father’s blood type is A, you conclude the genotype of your blood type is \_\_\_\_ and your father’s is \_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  IBi ; IAi | | Correct Answer: | check  IBi ; IAi | |  |  |  |

* **Question 14**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | If a mother has blood type O, which of the following blood types could **never** occur in any of her children?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  AB | | Correct Answer: | check  AB | |  |  |  |

* **Question 15**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Marfan syndrome is the result of inheriting a single allele. Individuals with Marfan syndrome are tall and long-limbed, and have both cardiovascular and eye defects. The inheritance of Marfan syndrome is an example of \_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  pleiotropy | | Correct Answer: | check  pleiotropy | |  |  |  |

* **Question 16**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A trait that is exhibited in a varying range of degrees, such as height in humans, is an indication that the trait is due to  \_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  the contribution of several genes, also known as polygenic inheritance | | Correct Answer: | check  the contribution of several genes, also known as polygenic inheritance | |  |  |  |

* **Question 17**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The individual features of all organisms are the result of \_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  genetics and the environment | | Correct Answer: | check  genetics and the environment | |  |  |  |

* **Question 18**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | This pedigree supports the fact that widow's peak is due to a dominant allele, because if it were due to a recessive allele and both parents show the recessive phenotype (Joseph and Alici), \_\_\_\_\_\_  img516608982  .  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  all of the offspring would have a widow's peak | | Correct Answer: | check  all of the offspring would have a widow's peak | |  |  |  |

* **Question 19**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Widow's peak is a genetic trait caused by a dominant allele (*W* = dominant allele and *w* = recessive allele). Using pedigree analysis, you deduced that Mary has the genotype \_\_\_\_\_\_.    img516608983  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Ww | | Correct Answer: | check  Ww | |  |  |  |

* **Question 20**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A dominant genetic disorder, such as Huntington’s disease, can occur in which of the following?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  a homozygous dominant genotype and a heterozygous genotype. | | Correct Answer: | check  a homozygous dominant genotype and a heterozygous genotype. | |  |  |  |

|  |  |
| --- | --- |
| |  | | --- | |  | |

Wednesday, April 17, 2013 10:01:27 PM EDT

Lab 11 cell cycle 9 out of 10

**Review Test Submission: Lab11CellCyc**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (0C4A) - General Biology I |
| **Test** | Lab11CellCyc |
| **Started** | 4/19/13 10:37 PM |
| **Submitted** | 4/19/13 10:46 PM |
| **Status** | Completed |
| **Score** | 9 out of 10 points |
| **Time Elapsed** | 8 minutes out of 25 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Identify interphase img51660d6f1  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  I | | Correct Answer: | check  I | |  |  |  |

* **Question 2**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | Identify prophase img51660d6f2  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | x  II | | Correct Answer: | check  IV | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Identify metaphase img51660d6f3  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  V | | Correct Answer: | check  V | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Identify anaphase img51660d6f4  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  III | | Correct Answer: | check  III | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Identify telophase img51660d6f5  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  II | | Correct Answer: | check  II | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | To “read” a set of human chromosomes, scientists use several key features to identify their similarities and differences. They are \_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  all of the above | | Correct Answer: | check  all of the above | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A karyotype is \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  a photograph of all a person's chromosomes | | Correct Answer: | check  a photograph of all a person's chromosomes | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | How many chromosomes are present in the following karyotype?  **img51660d6f6**  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  forty seven | | Correct Answer: | check  forty seven | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | If there is any abnormal chromosome match in this karyotyping sample, what is the chromosome number? **img51660d6f7**  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  twenty one | | Correct Answer: | check  twenty one | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | What is the sex of the organisms based on the karyotype?  **img51660d6f8**  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  male | | Correct Answer: | check  male | |  |  |  |

Friday, April 19, 2013 10:46:20 PM EDT

Pre lecture Week 11

15 out of 15

**Review Test Submission: w11**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (025A) - General Biology I |
| **Test** | w11 |
| **Started** | 4/19/13 10:51 PM |
| **Submitted** | 4/19/13 11:38 PM |
| **Status** | Completed |
| **Score** | 15 out of 15 points |
| **Time Elapsed** | 46 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Linked genes are genes that: **(Answers for Q1-4 are in chapter 10)**  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  are found on the same chromosome | | Correct Answer: | check  are found on the same chromosome | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Diagrams of gene order and spacing on chromosomes are:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Linkage maps | | Correct Answer: | check  Linkage maps | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Any gene located on a sex chromosome but has nothing to do with sex determination is called a \_\_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  sex-linked gene. | | Correct Answer: | check  sex-linked gene. | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A Barr body is:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  An inactive X chromosome | | Correct Answer: | check  An inactive X chromosome | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A gradual change from an ancestral type was referred to by Darwin as:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Descent with modification | | Correct Answer: | check  Descent with modification | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | What is an adaptation?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  A trait that is heritable and confers reproductive success. | | Correct Answer: | check  A trait that is heritable and confers reproductive success. | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Broccoli, cabbages, and brussels sprouts all descend from the same wild mustard. They were produced by  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  artificial selection. | | Correct Answer: | check  artificial selection. | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A population is \_\_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  a group of individuals of the same species living in the same place at the same time. | | Correct Answer: | check  a group of individuals of the same species living in the same place at the same time. | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The entire collection of genes and their alleles is a population's:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Gene pool | | Correct Answer: | check  Gene pool | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A change in allele frequencies in a population over generations is referred to as \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  microevolution | | Correct Answer: | check  microevolution | |  |  |  |

* **Question 11**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following mechanisms can alter allele frequencies?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  all of the above | | Correct Answer: | check  all of the above | |  |  |  |

* **Question 12**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Movement of alleles from one population to another is  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  gene flow | | Correct Answer: | check  gene flow | |  |  |  |

* **Question 13**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Random changes in the genetic makeup of a population due to chance is  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  genetic drift. | | Correct Answer: | check  genetic drift. | |  |  |  |

* **Question 14**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Bright plumes and long tail feathers of a male bird-of-paradise represent an example of: img516f4d881  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  sexual selection. | | Correct Answer: | check  sexual selection. | |  |  |  |

* **Question 15**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which statement best describes the mode of natural selection depicted in the figure?  img516f4d882  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  directional selection | | Correct Answer: | check  directional selection | |  |  |  |

Friday, April 19, 2013 11:38:31 PM EDT

Post lecture chapter 11

**Review Test Submission: Hw11**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (025A) - General Biology I |
| **Test** | Hw11 |
| **Started** | 4/22/13 9:35 PM |
| **Submitted** | 4/22/13 10:52 PM |
| **Status** | Completed |
| **Score** | 19 out of 20 points |
| **Time Elapsed** | 1 hour, 17 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | If hair color, eye color, and freckles were consistently inherited together, the best explanation would be that \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  the genes for these traits are linked | | Correct Answer: | check  the genes for these traits are linked | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Linked genes generally \_\_\_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  do not follow the laws of independent assortment | | Correct Answer: | check  do not follow the laws of independent assortment | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | What is (are) the mechanism(s) for the production of genetic recombinants?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  linked genes crossing over and independent assortment of unlinked genes | | Correct Answer: | check  linked genes crossing over and independent assortment of unlinked genes | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Sturtevant's linkage map \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  orders genes on a chromosome based on recombination frequencies | | Correct Answer: | check  orders genes on a chromosome based on recombination frequencies | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The following recombination frequencies were found. Determine the order of these genes on the chromosome. a,c 10% a,d 30% b,c 24% b,d 16%  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  c----a----b----d | | Correct Answer: | check  c----a----b----d | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Sex-linked conditions are more common in men than in women because \_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  men need to inherit only one copy of the recessive allele for the condition to be fully expressed | | Correct Answer: | check  men need to inherit only one copy of the recessive allele for the condition to be fully expressed | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Color blindness is an X-linked recessive trait. A color-blind man has a daughter with normal color vision. What is the genotype of the daughter?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  XCXc | | Correct Answer: | check  XCXc | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A girl born to a couple has inherited hemophilia A, an X-linked recessive genetic disorder. Among the following possible choices, you deduced that her parents would have genotypes of \_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  XH Xh, Xh Y | | Correct Answer: | check  XH Xh, Xh Y | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Anhidrotic ectodermal dysplasia is an X-linked disorder that results in the absence of sweat glands. How would this condition be manifested in a heterozygous female?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  She would have a random pattern of tissue with and without sweat glands due to X-inactivation | | Correct Answer: | check  She would have a random pattern of tissue with and without sweat glands due to X-inactivation | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | All of the following are important observations used to explain natural selection except:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  there is very little individual variation within a species | | Correct Answer: | check  there is very little individual variation within a species | |  |  |  |

* **Question 11**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following best expresses the concept of natural selection?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  differential reproductive success based on inherited characteristics | | Correct Answer: | check  differential reproductive success based on inherited characteristics | |  |  |  |

* **Question 12**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A dog breeder wishes to develop a breed that does not bark. She starts with a diverse mixture of dogs. Generation after generation, she allows only the quietest dogs to breed. After 30 years of work she has a new breed of dog with interesting traits, but on average, the dogs still bark at about the same rate as other dog breeds. Which of the following would be a logical explanation for her failure?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  The tendency to bark is not a heritable trait. | | Correct Answer: | check  The tendency to bark is not a heritable trait. | |  |  |  |

* **Question 13**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The ease with which humans travel across the globe is likely to increase \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  gene flow | | Correct Answer: | check  gene flow | |  |  |  |

* **Question 14**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Genetic drift is a process based on \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  the role of chance | | Correct Answer: | check  the role of chance | |  |  |  |

* **Question 15**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following statement is **incorrect**?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  The North American bison was hunted to near extinction in the 1800s, and has since recovered, but with decreased genetic diversity. This is an example of stabilizing selection | | Correct Answer: | check  The North American bison was hunted to near extinction in the 1800s, and has since recovered, but with decreased genetic diversity. This is an example of stabilizing selection | |  |  |  |

* **Question 16**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Sexually dimorphic features do not include:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Intelligence | | Correct Answer: | check  Intelligence | |  |  |  |

* **Question 17**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The use of herbicides and pesticides over many years has lead to resistance in many organisms. This is \_\_\_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  directional selection | | Correct Answer: | check  directional selection | |  |  |  |

* **Question 18**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | There are no fitness differences among individuals with different fingerprints. The term that best describes this situation is \_\_\_\_  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  neutral variation. | | Correct Answer: | check  neutral variation. | |  |  |  |

* **Question 19**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Tay-Sachs is inherited as an autosomal recessive allele. Homozygous individuals die within the first few years of life. However, there is some evidence that heterozygous individuals are more resistant to tuberculosis. Which of the following statements about Tay-Sachs is *true*?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  This situation is an example of heterozygote advantage if tuberculosis is present in a population. | | Correct Answer: | check  This situation is an example of heterozygote advantage if tuberculosis is present in a population. | |  |  |  |

* **Question 20**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | \_\_\_\_\_ and \_\_\_\_\_ generate variation in populations.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | x  Genetic drift … natural selection | | Correct Answer: | check  Mutation … sexual recombination | |  |  |  |

Lab 12

**Review Test Submission: Lab12DNAfingerprint**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (0C4A) - General Biology I |
| **Test** | Lab12DNAfingerprint |
| **Started** | 4/22/13 10:54 PM |
| **Submitted** | 4/22/13 11:03 PM |
| **Status** | Completed |
| **Score** | 9 out of 10 points |
| **Time Elapsed** | 9 minutes out of 30 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | DNA Fingerprinting is a test used to identify \_\_\_\_ in a person’s cells.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  genetic information | | Correct Answer: | check  genetic information | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Gel electrophoresis is used to \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  separate DNA fragments | | Correct Answer: | check  separate DNA fragments | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | What features of a DNA fragment causes it to move through a gel during electrophoresis?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  The electrical charges of its phosphate groups | | Correct Answer: | check  The electrical charges of its phosphate groups | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following statements is correct?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Longer DNA fragments migrate slower than shorter fragments | | Correct Answer: | check  Longer DNA fragments migrate slower than shorter fragments | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | A segment of DNA has two restriction sites–I and II. When incubated with restriction enzymes I and II, three fragments will be formed–a, b, and c. Which of the following gels produced by electrophoresis would represent the separation and identity of these fragments?  img516f4f241  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  B | | Correct Answer: | check  B | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The term "RFLP" refers to \_\_\_\_\_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  the fact that restriction enzymes cut DNA into pieces of different lengths | | Correct Answer: | check  the fact that restriction enzymes cut DNA into pieces of different lengths | |  |  |  |

* **Question 7**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | The letter(s) \_\_\_ indicate(s) restriction sitesimg516f4f246  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | x  C and D | | Correct Answer: | check  A | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | DNA fingerprints used as evidence in a murder trial look something like supermarket bar codes. The pattern of bars in a DNA fingerprint shows \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  the presence of various-size fragments of DNA | | Correct Answer: | check  the presence of various-size fragments of DNA | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Choose the correct order of steps in DNA analysis.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  loading samples, electrophoresis, visualization | | Correct Answer: | check  loading samples, electrophoresis, visualization | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following suspects matches the samples taken from the crime scene?  img516f4f242  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Suspect 2 | | Correct Answer: | check  Suspect 2 | |  |  |  |

Pre lecture week 12

**Review Test Submission: w12**

**Content**

|  |  |
| --- | --- |
| **User** | Casey Arman Carnnia |
| **Course** | (Spring 2013) BIO 101 (025A) - General Biology I |
| **Test** | w12 |
| **Started** | 4/26/13 10:07 PM |
| **Submitted** | 4/26/13 10:36 PM |
| **Status** | Completed |
| **Score** | 14 out of 16 points |
| **Time Elapsed** | 28 minutes. |
| **Instructions** |  |

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The types of living organisms on Earth have changed over time, new species have originated and existing species have disappeared. This is an example of:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Macroevolution | | Correct Answer: | check  Macroevolution | |  |  |  |

* **Question 2**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | The biological species concept is based on:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | x  differences among populations. | | Correct Answer: | check  reproductive isolation. | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Biologists divide mechanisms of reproductive isolation into:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Prezygotic and postzygotic | | Correct Answer: | check  Prezygotic and postzygotic | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following is not a type of prezygotic reproductive isolation?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Hybrid infertility | | Correct Answer: | check  Hybrid infertility | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In mechanical isolation,  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  sex organs are not compatible | | Correct Answer: | check  sex organs are not compatible | |  |  |  |

* **Question 6**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Gamete incompatibility is resulted from the fact that  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  sperm and egg are unable to bind | | Correct Answer: | check  sperm and egg are unable to bind | |  |  |  |

* **Question 7**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The spatial arrangements that may help cause speciation are:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Sympatric, parapatric, and allopatric | | Correct Answer: | check  Sympatric, parapatric, and allopatric | |  |  |  |

* **Question 8**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | \_\_\_\_\_ is the separation of two species by a physical barrier.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Allopatric speciation | | Correct Answer: | check  Allopatric speciation | |  |  |  |

* **Question 9**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | In plants, polyploidy can lead to what types of speciation?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  sympatric | | Correct Answer: | check  sympatric | |  |  |  |

* **Question 10**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which of the following is an example of polyploidy? I. An insect with n = 4 has 8 total chromosomes in each somatic cell II. A plant with n = 12 has 48 total chromosomes in each somatic cell III. A fish with n = 66 has 132 total chromosomes in each somatic cell  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  II | | Correct Answer: | check  II | |  |  |  |

* **Question 11**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The idea that evolution proceeds in small, incremental changes over many generations is:  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  gradualism | | Correct Answer: | check  gradualism | |  |  |  |

* **Question 12**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The hallmarks of punctuated equilibrium are  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  periods of rapid change followed by stable periods. | | Correct Answer: | check  periods of rapid change followed by stable periods. | |  |  |  |

* **Question 13**

0 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | Mass extinctions create conditions that promote \_\_\_\_\_.  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | x  microevolution | | Correct Answer: | check  adaptive radiation | |  |  |  |

* **Question 14**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Stanley Miller's experiment produced what key biological molecule?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  amino acids | | Correct Answer: | check  amino acids | |  |  |  |

* **Question 15**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | Which gas was probably absent from the Earth's primitive atmosphere?  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  oxygen | | Correct Answer: | check  oxygen | |  |  |  |

* **Question 16**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The endosymbiont theory explains the origin of  Answer |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | check  Mitochondria and chloroplasts | | Correct Answer: | check  Mitochondria and chloroplasts | |  |  |  |

Friday, April 26, 2013 10:36:27 PM EDT