Experiment 5: Populations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Category** | **4** | **3** | **2** | **1** | **Total****Earned****Points** |
| Attached Rubric  |  |  | Rubric stapled to the upper left hand corner  |  |  |
| **Components of the report** **Name:****Lab Group:****Region:** |  |  | All required elements are present and additional elements that add to the report (e.g., thoughtful comments, graphics) have been added.  | All required elements are present.  |  |
| **Pre-Lab Part A****Questions****1 and 2** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Pre-Lab Part A****Questions****3** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Pre-Lab Part A****Questions****4** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Pre-Lab Part A****Questions****5** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Pre-Lab Part B****Questions****1 and 2** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Pre-Lab Part B****Questions****3 and 4** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Pre-Lab Part B****Questions****5 and 6** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Pre-Lab Part B****Questions****7 and 8** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Data** **Part 1 – Population Demographics** | Professional looking and accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled | Accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled | Accurate representation of the data in written form, but no graphs or tables are presented.  | Data are not shown OR are inaccurate.  |  |
| **Data** **Part 1 – age structure diagram from your groups assigned area** | Professional looking and accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled | Accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled | Accurate representation of the data in written form, but no graphs or tables are presented.  | Data are not shown OR are inaccurate.  |  |
| **Calculate growth rate – Question 2** | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates an accurate understanding of most scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  | Report illustrates inaccurate understanding of scientific concepts underlying the  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Question 3** | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates an accurate understanding of most scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  | Report illustrates inaccurate understanding of scientific concepts underlying the  |  |
| **Question 4** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 5** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 6** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 1** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 2** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 3** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 4** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 5** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 6** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 7** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Question 8** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Discussion Question 1**  |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Discussion Question 2** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Discussion Question 3** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Discussion Question 4** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Discussion Question 5** |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Discussion Question 6**  |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |
| **Discussion Question 7**  |  |  | Answers illustrate an accurate and thorough understanding of scientific concepts underlying the lab.  | Report illustrates a limited understanding of scientific concepts underlying the lab.  |  |