**Republic of the Philippines**

**BICOL UNIVERSITY**

Legazpi City, Albay

**Science, Technology and Society (STS)**

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| **Name:** | **Date:** |
| **Year Level/Course/Block#:** |  |

**Lesson # 6 & 7 – Copernican and Darwinian Revolution**

**Part 1. Copernican Revolution.** For a millennium and a half, people believed that the Earth is the center of the universe and that other celestial bodies like the moon, stars and the sun revolve around it. Thus, the term geocentric model was coined to describe this understanding about the solar system. Many philosophers in ancient Greece like Eudoxus and Aristotle postulated this and was the foundation of knowledge and understanding of all people. Another philosopher in the name of Ptolemy, from Alexandria, also supported geocentrism by designing a completely mathematical system of the universe.

***Task A****.* Draw the Aristotelian-Ptolemaic geocentric model and discuss in the table below 3 major differences of this geocentric model from the heliocentric model that **we use today**. (You may use an extra sheet of paper to draw the model. Upload a picture of your drawing and paste it here, use a digital drawing tablet, use MS paint, or print and pass the paper on our meeting next week).

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| **ARISTOTELIAN-PTOLEMAIC GEOCENTRIC MODEL** | **HELIOCENTRIC MODEL** |
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**Part 2. Darwinian Revolution.** Before the mid-19th century, many people believed that we are created in the image and likeness of God and that all creatures in the planet have been conceived by a divine force. It was during the time of Charles Darwin that the view of organic life changed. Charles Darwin is a British naturalist and he was the first to explain with evidence how evolution might have occurred.

On the following items, do a little research and **define** the **following** **terms**. Attach your **references** in succeeding pages.

1. *Natural Selection*
2. *Speciation*
3. *Descent with modification*