**ESTIMANIA**

**STATION 1 – JAR OF RICE**

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| 1. How many cups of rice are in the jar   1. 1 cups 2. 1.5 cups 3. 2 cups 4. 2.5 cups 5. 3 cups |
| 2. How many grans of rice are in the jar   1. 4500 2. 5500 3. 6500 4. 7500 5. 8500 |
| 3. If one grain of rice weighs 30 mgs how much does the rice in the jar weigh   1. 100 grams 2. 200 grams 3. 300 grams 4. 400 grams 5. 500 grams |

**MICROBE MISSION**

1. Which one of the following is the main cause of the common cold?
   1. Prions
   2. Fungi
   3. Bacteria
   4. Protozoa
   5. Viruses
2. Which of the following is true about viruses?
   1. They are eukaryotic cells
   2. They can facilitate their own cellular reproduction
   3. They are considered living organisms
   4. Some viruses have DNA
   5. They only infect bacteria
3. Protozoa are thought to play a major role in which of the following diseases:
   1. Malaria
   2. Tuberculosis
   3. Alzheimer’s Disease
   4. The common cold
   5. “Mad cow disease”

**OPTICS**

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| 1. Which phenomenon can occur with light, but not with sound? |  |
| * 1. Doppler effect |  |
| * 1. Interference |  |
| * 1. Polarization |  |
| * 1. Refraction |  |
| * 1. Reflection |  |

|  |  |
| --- | --- |
| 1. The scientist who proposed a photon |  |
| * 1. Einstein |  |
| * 1. Planck |  |
| * 1. Newton |  |
| * 1. Tesla |  |
| * 1. None of the above |  |

|  |  |
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| 1. Experiments performed with light indicate that light exhibits? |  |
| * 1. Gaseous properties only |  |
| * 1. Wave Properties only |  |
| * 1. Particle and Wave properties |  |
| * 1. Particle properties only |  |
| * 1. Gaseous and Wave Properties |  |

**STARRY STARRY NIGHT**

1. Mercury rotates on its axis every

a. 60 earth days

b. 59 earth days

c. 365 earth days

d. 732 earth days

e. it varies

2. Venus rotates on its axis every

a. 243 earth days

b. 59 earth days

c. 365 earth days

d. 732 earth days

e. it varies

3. Tides are caused by

a. gravitational pull of the sun

b. gravitational pull of the moon

c. gravitational pull of the sun and moon

d. gravitational pull of all planets

e. none of the above