**Mid-Term Assignment (Spring-2020) (BS-MLT 2nd Sec-A & Sec-B)**

**Course Title: Basic Microbiology Instructor: Mr. Fazli Zahir Mian**

**Time: 48 Hours**

**Q1: Fill in the Blanks.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_are living things which individually are too small to be seen with naked eye.
2. The scientific study of algae is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Diseases causing living organisms are known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cell organelle is present both in prokaryotic and eukaryotic cell.
5. The power house of cell is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the most common method of asexual reproduction in microbes.
7. Log period of bacterial growth is also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. \_\_\_\_\_\_\_\_\_\_\_phase of microbial growth is metabolically active and is for industrial purposes.
9. Shrinkage of cell’s plasma membrane caused by osmotic loss of water is called \_\_\_\_\_\_\_\_\_\_.
10. For synthesis of cellular material nitrogen and sulfur is needed for \_\_\_\_\_\_\_\_\_\_\_\_ synthesis.

**Q2: Write short notes on the following**

1. Mitochondria
2. Nucleus
3. Budding
4. Culture media
5. Growth factors

**Q3: What is bacterial growth? Discus different phases of bacterial growth**

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Good luck.