**Complete the following:**

1. **…………, …………. and …………. are methods for measurement of cell mass.**
2. **Light pigments are …………., ………… and …………**
3. ***Staphylococcus aureus* can grow on high concentrations of ………… and ferment …………**
4. **Bacteria able to live in environments with high concentrations of sugar are known as…………**
5. **Bacteria with optimal growth at low and high temperatures are termed: ………… and …………, respectively.**
6. **…………. and …………. are types of nutrients entry to the cell do not require energy.**
7. **CO2 combines with …………. to begin the autotrophic fixation during Calvin cycle.**
8. **Sugars are transported into the cell as phosphorylated forms via ………… technique.**

**Complete the following:**

1. **Methods for measurement of cell numbers are …………., ………… and …………**
2. **…………., ………… and ………… are types of growth factors.**
3. **Bacteria and cyanobacteria exhibit ………… and ………… types of photosynthesis, respectively.**
4. **According to toxicity of oxygen, bacteria are classified into: …………., ………… and …………**
5. **…………. are added in order to maintain the constancy pH of the medium.**
6. **Fixation of CO2 to the level of glucose requires ………… and ………… as energy compounds.**
7. **Chlorophyll is a tetrapyrrole which contains ………… at the centre of the porphyrin ring.**

**Complete the following:**

1. **Nutrients get into the microbial cell via three techniques: …………., ………… and …………**
2. **Bacteria can survive the toxic effect of oxygen in the presence of …………., ………… and …………**
3. **The water activity (Aw) of pure H2O is …………**
4. **Fixation of CO2 to the level of glucose requires ………… and ………… as energy compounds.**
5. **Temperatures are classified into …………., ………… and ………… according to effect on bacteria.**
6. **…………., ………… and ………… are used to measure cell counts.**

**Complete the following:**

1. **Bacteria are classified into ………., ……… and ………… according to the effect of pH.**
2. **………… and ………… are secondary light-harvesting pigments.**
3. **Solute transport can be classified into …………., ………… and …………**
4. **Aerobic bacteria contain …………., ………… and ̸ or ..……… enzymes.**
5. **Bacteria able to live in high concentrations of salt are known as………… and those able   
    to live in high concentrations of sugar are…………**
6. **Fixation of CO2 to the level of glucose requires ………… and ………… as energy   
    compounds**