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**Paper Basic microbiology**

**Discipline MLT 2nd**

**Q.no.1/Answer:**

**Fill in the blanks**

**1.Micro organism**

**2.phycology**

**3.Pathogenic**

**4.ATP energy**

**5.Mitochondria**

**6.Binary Fission**

**7.logarithmic increase**

**8.Log**

**9.plasmolysis**

**10.protein synthesis**

**Q.no.2/Answer**

**Write short notes on the following**

**1.Mitochondria**

It is the power house of cell to store the energy to the body to the deferent activities is called mitochondria.

**2.Nucleus**

Nucleus is the center of that present both in plants and animals cells also in human beings. It is also called a membrane bounded structure is called nucleus.

**3.Budding**

It is a type of asexual reproduction in the plants which produce a new offspring due to its cell division is called budding.

**4.Culture Media**

Which is used specific in different kinds of micro organisms and also in microbiological laboratories. The solid culture such as agar to the composed of the nutrients is called culture media.

**5.Growth factors**

It is the naturally occurring substances of the stimulating cellular growth is called growth factor.

**Q.no.3/Answer**

**Bacterial Growth**

The numbers of bacteria increase does not refer to in the size increase to the individual cells. The growth of bacterial into two daughter cells in a process called binary fission. Hence bacterial growth occurs both daughter cells from the division do not necessarily survive.

**Different phases**

**1.Lag phase:** The cells are not dormant DNA and enzyme synthesis. The length of the log phase depends on environmental conditions.

**2.Log phase:**It is usually during the log phase that diseases symptoms sensitive to adverse conditions some times called as exponential growth phase.

**3.Stationar phase:**It may play a role the period of the equilibrium stationary phase also biology phase in a bacterial growth.

**4.Death phase:**The number of living cells decreases exponentially and population growth.The cellular biology period it also knows as logarithmic phase.

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