

Q1/ Fill the blanks with suitable word.

- 1- The length of the generation time is a measure of the ----- of an organism.
- 2- The generation time of a given bacterial species is variable and depends on -----, -----, and -----.
- 3- -----, the cause of Hansen's disease, has a generation time of 10 to 30 days.
- 4- A specially designed slide called a ----- is used in direct microscopic counts.
- 5- The instrument used to measure turbidity is a -----.

- 6- When the quantity of bacteria is very small, as in lakes or relatively pure streams, bacteria can be counted by ----- methods.
- 7- -----: infectious RNA without capsid that cause some plant diseases, such as potato spindle tuber disease.
- 8- In some viruses (such as the -----), the nucleic acid is in several separate segments.
- 9- Two types of asexual spores are produced by fungi, ----- and -----.
- 10- The yeast ----- is used to make bread and hepatitis B vaccine
- 11- An example of Zygomycota is -----, the common black bread mold.
- 12- Cell wall of bacteria consist of peptidoglycan, while of fungi contain --- -----, mannans and -----.

Q2/ Account the five stages of the multiplication cycle of phages, then describe the first and the final stages.

Q3/ What is dimorphism in fungi? Explain it with an example.

Q4/ Explain, why?

- 1- In the stationary phase the growth rate slows.
- 2- You can get influenza more than once.