

A Charutar Vidya Mandal's Institution  
**V.P. & R.P.T.P. SCIENCE COLLEGE**  
(AUTONOMOUS) (Grant-in-Aid)  
Affiliated to Sardar Patel University  
VALLABH VIDYANAGAR-388120



**Bachelor of Science (Semester 3) Internal Examination - 2025**  
**US03MAMIC02: Microbial Diversity**

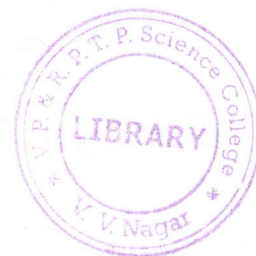
**Date: 24 September 2025, Wednesday**  
**Time: 02:45 PM to 04:15 PM**

**Total marks :30**

Q-1 Answer the following Multiple Choice Questions

(06)

1. Vegetative reproduction in fungi occurs by :  
A. Fragmentation    B. Budding    C. Fission    D. All of the above
2. Fusion of two motile gametes is termed as :  
A. Isogamous    B. Anisogamous    C. Oogamous    D. None of the above
3. A group of microscopic aquatic organisms that float freely on water surface .  
A. Plankton    B. Benthic    C. Neustonic    D. Benthos
4. Bacteriophage is a \_\_\_\_\_ virus.  
A. Single stranded DNA (ssDNA)    B. Double stranded DNA (dsDNA)  
C. Single stranded RNA (ssRNA)    D. Double stranded RNA (dsRNA)
5. Virus was discovered by \_\_\_\_\_.  
A. Edward Jenner    B. Dmitri Ivanowsky    C. Max Knoll    D. Fredrick Twort
6. The axial flagella is a characteristic feature of which of the following.  
A. Chlamydia    B. Spirochete    C. Rickettsia    D. Mycoplasma



Q-2 Describe aggregation and modification of the fungal hyphae.

(06)

OR

Q-2 Write a note on economic importance of fungi.

(06)

Q-3 Describe reproduction in protozoa.

(06)

OR

Q-3 Describe the importance of algae.

(06)

Q-4 Write in detail the symmetry of virus.

(06)

OR

Q-4 Elaborate the lifecycle of bacteriophage.

(06)

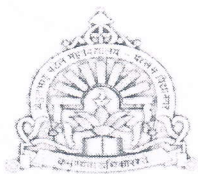
Q-5 Write a note on Cyanobacteria.

(06)

OR

Q-5 Write a note on Archaeobacteria.

(06)



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## Quiz

### Q-1 Fill in the blank

08

- 1) The symbiotic association between fungi and root is called \_\_\_\_\_. (Lichen / Mycorrhiza)
- 2) The mode of nutrition of fungi is \_\_\_\_\_. ( Autotrophic / heterotrophic)
- 3) The chloroplasts contains stroma and flattened vesicles called as \_\_\_\_\_. ( Thylakoids / Mitochondria)
- 4) The sexual reproduction in which the two gametes are involved in fertilization is called \_\_\_\_\_.  
( Isogamy / Anisogamy)
- 5) Terminase and portal protein are part of \_\_\_\_\_. ( Receptors / Packsome)
- 6) The amount of dose that destroy 50% population of total exposed organisms is called \_\_\_\_\_.  
( Lethal dose LD50 / Infectious dose ID50 )
- 7) A \_\_\_\_\_ is a single celled organisms whose cell lacks a nucleus and other membrane bound organelles .  
( Prokaryote / Eukaryote )
- 8) The \_\_\_\_\_ are a diverse phylum of gram positive bacteria with high GC content.  
( Mycoplasma / Actinomycetes)

### Q-2 TRUE OR FLASE

07

- 1) Chitin is the main component of fungal cell wall . ( True / False )
- 2) Fungi reproduce only by sexual reproduction . ( True / False )
- 3) Pseudopodia are whip like structure . ( True / False )
- 4) Carrageenan is used as a stabilizer in food. ( True / False )
- 5) TMV has complex symmetry . ( True / False )
- 6) Cultivation of virus can be done in embryonated egg. ( True / False )
- 7) The cyanobacteria are also known as blue green algae. ( True / False )

