



BIOLOGY

BOOKS - BAL BHARTI

SYSTEMATICS OF LIVING ORGANISMS

Can You Recall

1. What is five kingdom system of classification?



Watch Video Solution

Can You Tell

1. Which characters of organisms are visible characters?



[Watch Video Solution](#)

2. Name the recent approaches in taxonomy.



[Watch Video Solution](#)

3. What is DNA barcoding?



Watch Video Solution

4. What is evolution?



Watch Video Solution

5. Enlist the uses of taxonomy.



Watch Video Solution

6. Why horse and ass are considered to be two different species or animals?



[Watch Video Solution](#)

7. Make a flow chart showing taxonomic hierarchy.



[Watch Video Solution](#)

8. What are salient features of Monera?



[Watch Video Solution](#)

9. What will be the shape of bacillus and coccus type of bacteria?



[Watch Video Solution](#)

10. Write a note on useful and harmful bacteria.



[Watch Video Solution](#)

11. Write a note on economic importance of fungi.



Watch Video Solution

12. Why are fungi considered as heterotrophic organisms?



Watch Video Solution

13. What are coenocytic hyphae?





[Watch Video Solution](#)

14. Classify kingdom Fungi into their types.



[Watch Video Solution](#)

15. Differentiate between Plantae and animalia.



[Watch Video Solution](#)

16. How are fungi different from plants?





[Watch Video Solution](#)

17. Have you seen any diseased plant in your farm?



[Watch Video Solution](#)

18. Why are viruses called infectious nucleoproteins?



[Watch Video Solution](#)

19. Describe genetic material in plant and animal viruses as well as in bacteriophage.



Watch Video Solution

20. Differentiate between Viruses and Viroids.



Watch Video Solution

Observe And Discuss

1. Complete the following table on the basis of previous knowledge.

Characters	Monera	Protista	Fungi	Plantae	Animalia
Cell type	Prokaryotic	Eukaryotic	Eukaryotic	Eukaryotic	Eukaryotic
Cell wall	-----	Present in some organisms	-----	Present (cellulose)	-----
Nuclear membrane	Absent	Present	Present	-----	Present
Body organization	Unicellular	-----	Multicellular/ loose tissue	Tissue /organ	T i s s u e / organ /system
Mode of nutrition	-----	Autotrophic Photosynthetic Heterotrophic	-----	Autotrophic (Photosynthetic)	-----
Ecological role	Decomposers	-----	Decomposers	-----	Consumers



Watch Video Solution

Do Yourself

1. Complete the following table through collecting information about sunflower, tiger with characteristic features.

Sunflower	Category	Taxon	Characteristics
	Kingdom		

Tiger	Category	Taxon	Characteristics
	Kingdom		

 [Watch Video Solution](#)

Exercise Choose Correct Option

1. Which of the following shows single stranded RNA and lacks protein coat?

A. Bacteriophage

B. Plant virus

C. Viroid

D. Animal virus

Answer:



Watch Video Solution

2. Causative agent of red tide is _____.

A. Dinoflagellate

B. Euglenoid

C. Chrysophyte

D. Lichen

Answer:



Watch Video Solution

3. Select odd one out for Heterotrophic bacteria.

A. Nitrogen fixing bacteria

B. Lactobacilli

C. Methanogens

D. Antibiotic production

Answer:



Watch Video Solution

4. Paramecium: Ciliated Protist

Plasmodium:..... .

A. Amoeboid protozoan

B. Ciliophora

C. Flagellate protozoan

D. Sporozoan

Answer:



Watch Video Solution

Exercise Answer The Following

1. What are salient features of Monera?



[Watch Video Solution](#)

2. What will be the shape of bacillus and coccus type of bacteria?



[Watch Video Solution](#)

3. Why is binomial nomenclature important?



[Watch Video Solution](#)

Exercise Write Short Notes

1. Write a note on useful and harmful bacteria.



[Watch Video Solution](#)

2. Write short note on - Five Kingdom system.



Watch Video Solution

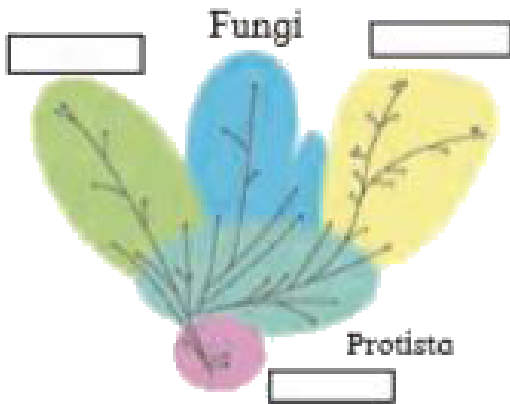
3. Write short note on: Useful Fungi.



Watch Video Solution

Exercise

1. Complete tree diagram in detail



[Watch Video Solution](#)

2. Draw neat and labelled diagram :

Paramecium :





Watch Video Solution

3. Draw a neat labelled diagram of Euglena.



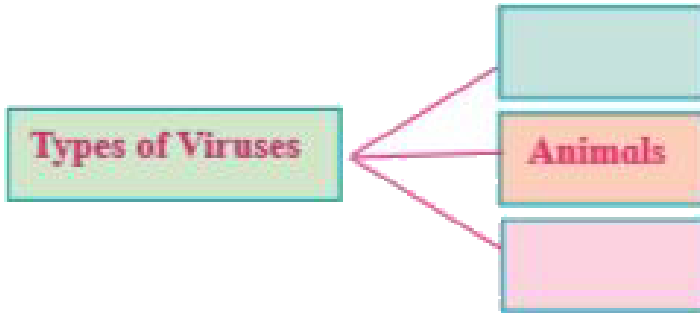
Watch Video Solution

4. Draw a neat labelled diagram of TMV.



Watch Video Solution

5. Complete chart and explain in your word



[Watch Video Solution](#)

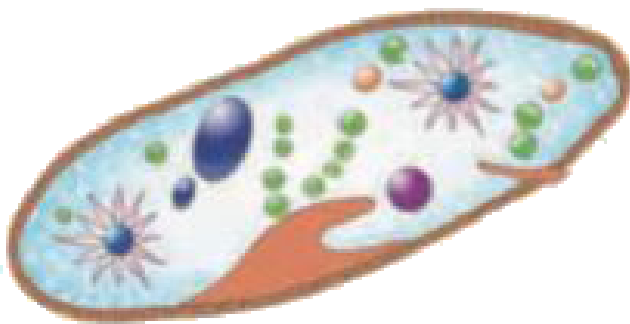
6. Identify the following diagrams, label them and write detail information in your words



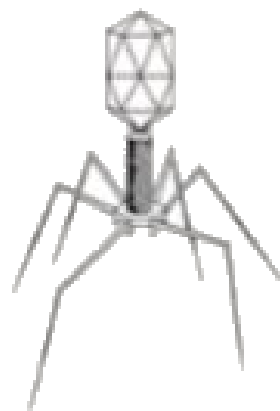
A



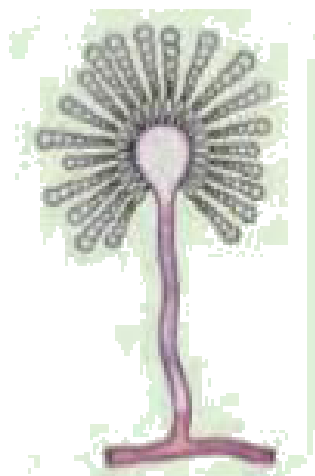
B



C



D



E



F



[Watch Video Solution](#)

7. The scientific name of sunflower is given below. Identify the correctly written name.



[Watch Video Solution](#)

8. The scientific name of sunflower is given below. Identify the correctly written name.



Watch Video Solution

9. Match the following.

Kingdom

i. Monera

ii. Protista

iii. Plantae

iv. Fungi

Examples

a. Lichen

b. Cyanobacteria

c. *Rhizopus*

d. *Spirogyra*



Watch Video Solution

Exercise Complete The Following

1. Plant-like Protista - _____



Watch Video Solution

2. Complete the following. _____ - Entamoeba



Watch Video Solution