



### BIOLOGY

# BOOKS - VIKRAM PUBLICATION ( ANDHRA PUBLICATION)

## **BIOLOGICAL CLASSIFICATION**

Very Short Answer Type Questions

1. What is the nature of cell-walls in diatoms?

**2.** How are viroids different from viruses?

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**3.** What do the terms phycobiont and mycobiont signify?

4. Find out what do the terms 'algal bloom'

and 'red-tides' signify

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5. State two economically important uses of:

(a) Heterotrophic bacteria

(b) Archaebacteria

6. What is the principle underlying the use of

cyanobacteria in agricultural fields for crop

improvement?



7. Plants are autotrophic. Can you think of

some plants that are partially heterotrophic?



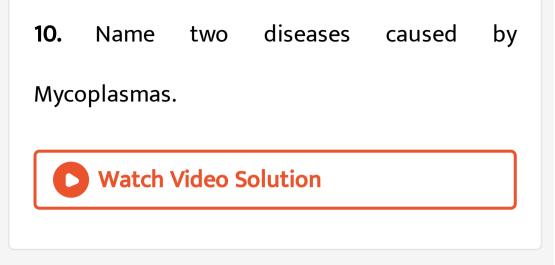
8. Who proposed five Kingdom classification ? How many Kingdoms of this classification contain eukaryotes



9. Give the main criteria used for classification

by whittaker.





**11.** What are slime moulds ? Explain what is meant by plasmodium with reference to slime moulds.

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Short Answer Type Questions

1. What are the characteristic features of

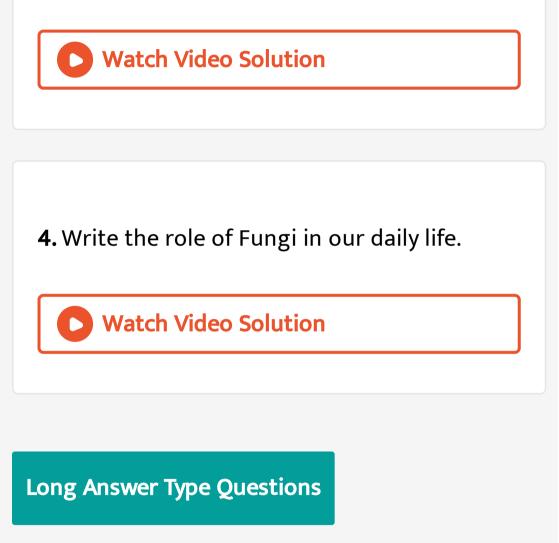
Euglenoids?



2. Give the salient features and importance of

chrysophytes.

**3.** Give a brief account of Dinoflagellates.



**1.** Give the salient features and comparative account of different classes of fungi studied by you.

Phycomycetes :

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 Give the salient features and comparative account of different classes of fungi studied by you.

Asomycetes :



**3.** Give the salient features and comparative account of different classes of fungi studied by you.

Basidomycetes :

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**4.** Give the salient features and comparative account of different classes of fungi studied

by you.

Deuteromycetes :



5. Describe briefly different groups of

Monerans you have studied.

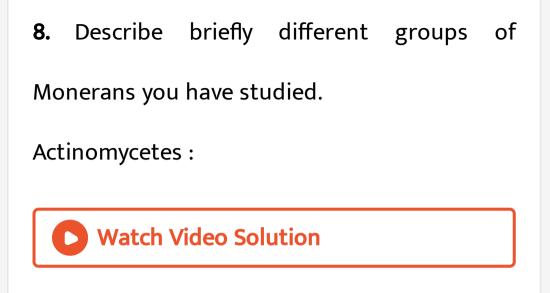
Archaebacteria :

6. Describe briefly different groups of
Monerans you have studied.
Eubacteria :
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7. Describe briefly different groups of

Monerans you have studied.

Mycoplasma



groups in Protista

Chrysophytes :

groups in Protista

Dinoflagellates :

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11. Enumerate the sallent features of different

groups in Protista

Euglenoids :

groups in Protista

Slime moulds :



#### 13. Enumerate the sallent features of different

groups in Protista

Protozoans :

groups in Protista

Sporozoans :

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#### **Textual Exercises**

1. State two economically important uses of:

(a) Heterotrophic bacteria

(b) Archaebacteria

2. Give a comparative account of the classes of

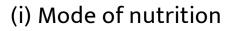
Kingdom Fungi under the following:

- (i) Mode of nutrition
- (ii) Mode of reproduction



3. Give a comparative account of the classes of

Kingdom Fungi under the following:



(ii) Mode of reproduction



**4.** Give a brief account of viruses with respect to their structure and nature of genetic material. Also name four common viral diseases.

5. Organise a discussion in your class on the

topic- Are viruses living or non-living?

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6. Suppose you accidentally find an old preserved permanent slide without a label and in your effort to identify it, you place the slide under microscope and observe the following features :

a) unicellular body .

- b) well defined nucleus
- c) biflagellate condition one flagellum lying

longitudinally and the other transversely.

What would you identify it as ? Can you name

the kingdom it belongs to ?

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 Polluted water bodies have usually high abundance of plants like Nostoc and Oscillatoria. Give reasons.

**8.** Cyanobacteria and heterotrophic bacteria have been clubbed together in Eubacteria of Kingdom Monera as per the five kingdom classification, even though the two are vastly different from each other. Is this grouping of the two types of taxa in the same kingdom justified ? If so why?



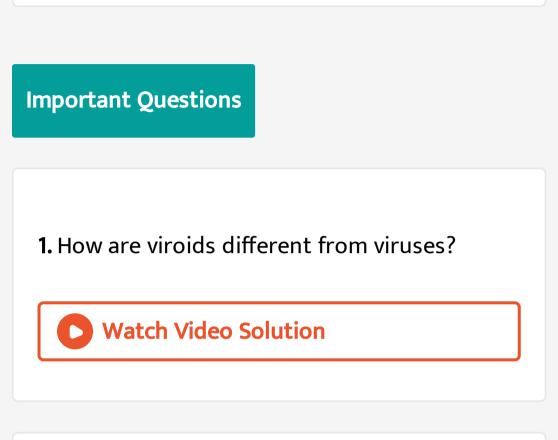
**9.** What observable features in Trypanosoma would make you classify it under kingdom protista.



**10.** At a stage of their life cycle, ascomycetes fungi produce the fruiting bodies like cleistothecium perithecium apothecium. How are these three types of fruiting bodies differ from each other ?







2. Find out what do the terms 'algal bloom' and 'red-tides' signify

3. State two economically important uses of:

(a) Heterotrophic bacteria

(b) Archaebacteria

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4. Name two diseases caused by Mycoplasmas.

