PREVIOUS QUESTIONS XI 2012-2024: Chapter 1-Biological Classification

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1. 'Diatoms, the chief producers in the oceans, are useful to us even after their death.' Evaluate the statement.

2012 March

2. Based on the relationship fill in the blanks.

Euglena: protista Mycoplasma:

2012 Imp.

3. Suggest the correct scientific term for the following:

Algal partner in lichens

2012 Imp.

- 4. Botany teacher brought a diseased plant in the classroom. Manoj identified the pathogen as a virus. Can you list any two symptoms of disease, that helped him to identify the pathogen.
- 5. Observe the relationship between the first pair and fill up the blanks using appropriate terms:
 - a) Carolus Linnaeus Two kingdom classification R H Whittaker -

6. Identify the statement which is applicable to

b) Form blooms in polluted water c) Presence of prominent nucleus d) Completely lack of a cellwall

b) Thermoacidophiles - Extreme heat Halophiles -

a) Important decomposers

2013 Imp.

- 10. The name 'Virus' that means venom or poisonous fluid was given by
 - a) Pasteur
 - b) Ivanowsky
 - c) Beijerinck

d) Stanley

2016 March

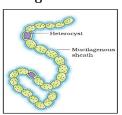
11. Cell wall deposits of diatoms are called diatomaceous earth. Write any two uses of it.

- 12. Read the following statements and select the correct satements from the given choices.
 - i) Methanogens are present in the guts of ruminant animals.
 - ii) Mycoplasma has distinct cell wall.
 - iii)Viroids are infectious naked DNA molecules.
 - iv) Algal component of lichen is phycobiont.
 - a) (ii) and (iii)
 - b) (i) and (iv)
 - c) (i) and (iii)
 - d) (ii) and (iv)

2017 March

- 13. Identify the kingdom based on the clues given below.
 - a) Organisms are Eukaryotic.
 - b) Their cell wall is made up of chitin.

14. Observe the figure given below and identify the blue green alga.



2018 Model

- 7. Name one word for the following:
 - a) Symbiotic association of algae and fungi
 - b) Viruses that attack bacteria

2014 Imp.

2014 March

- 8. The class of fungi known as imperfect fungi is
 - a) Ascomycetes

cvanobacteria.

- b) Phycomycetes
- c) Deuteromycetes
- d) Basidiomycetes

2015 March

9. Observe the relationship between the first pair and fill in the blanks using appropriate terms:

> Bacillus Bacteria - Rod shaped Coccus Bacteria -

2015 Imp.

15. Fill in the blank.

In Anabaena specialized cells called help in nitrogen fixation.

2018 March

- 16. Which one of the following features is applicable to bacteriophages?
 - a) They are bacterial viruses.
 - b) They have double stranded DNA as genetic material.
 - c) The protein coat is called capsid.
 - i) a) and b)
 - ii) b) and c)
 - iii) a) and c)
 - iv) All of the above

2018 Imp

PREVIOUS QUESTIONS XI 2012-2024 : Chapter 1-Biological Classification

17. _____are the smallest living cells.

2018 2nd term

- 18. Characteristic features of a protist are given below. Identify the group of protist.
 - (a) Saprophytic protist
 - (b) Under suitable condition, they form an aggregation called plasmodium.

2019 Model

- 19. Observe the relationship between the first two terms and fill in the blank.
 - a) Mushroom: Agaricus
 - b) Bread mould:.....

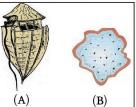
2019 March

- 20. Which among the following is an example for flagellated protozoan?
 - (a) Amoeba
 - (b) Trypanosoma
 - (c) Paramoecium
 - (d) Plasmodium

2019 Imp.

21. Observe the given figures A and B. Identify the protista class in which these organisms

belong.



2019 1st term

- 22. Name the agent which cause Bovine
 Spongiform Encephalopathy (mad cow disease).

 2019 1st term
- 23. Observe the relationship between the first pair and flll up the blanks using appropriate terms.
 - a) Rod shaped bacteria: bacillus; Comma shaped bacteria:
 - b) Trypanosoma : flagellated protozoan;

Paramoecium :

2019 2nd term

- 24. Which among the following produce biogas from the dung of ruminant animals?
 - (a) Thermoacidophiles
 - (b) Cyanobacteria
 - (c) Methanogens
 - (d) Halophiles

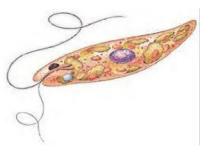
2020 Model

25. Observe the relation, and fill up the blank. Trypanosoma : Flagellated Protozoan

.....: Ciliated protozoan

2020 Model

26. Observe the figure given below. Name the organism.



2020 March

27. Fill in the blank.

Archaebacteria which can survive in hot springs are called

2020 Imp.

28. Network of hyphae in fungi is called _

2021 Mode

29. Choose the correct answer from the following.

AIDS in human being is caused by _____.

- (a)Bacterium
- (b)Fungus
- (c)Virus
- (d)Mycoplasma

2021 Model

30. Observe the first pair and fill in the blank.

Lichen: association with fungi and algae.

: association of fungi with roots of higher plants. 2021 Sep

HSSLIVE 31. Name the unicellular fungus used for making bread.

2021 Sep

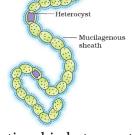
32. Observe the first pair and fill in the blank.

Monera: Prokaryote

Protista:_____

2021 Imp.

- 33. Choose the correct pair.
- (i)Lichen : association of Fungi and root of higher plants
- (ii)Saprophytes : absorb organic matter from dead substrates
- (iii)Mycorrhiza : association of Fungi and algae
- 34. Observe the figure given below and identify the blue green alga.



2022 2nd tern

35. Observe the relationship between the first two terms and fill in the blank.

Mushroom: Agaricus

Bread mould:

2023 Model

PREVIOUS QUESTIONS XI 2012-2024: Chapter 1-Biological Classification

36. Fill in the blank:

The algal component in lichen is known as

- 37. Which of these organisms cause 'Mad Cow Disease' in cattles?
 - (a) Virus
- (b) Viroids
- (c) Prions
- (d) Bacteria

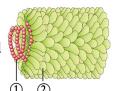
2023 Imp

38. Select the correct pair.

2023 2nd term

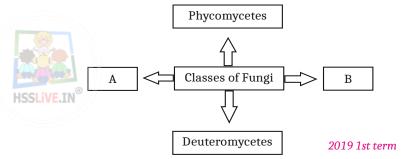
A	В
Methanogen	Survive without oxygen
Halophiles	Salty areas
Thermoacidophiles	Marshy areas
Mycoplasma	Hot springs

- 2. R.H.Whittaker classified organisms into five kingdoms based on certain criteria. Write any four criteria. 2017 2nd term
- 3. Some organisms show associations which are mutually benefited.
 - a) Which are the components of Lichens?
 - b) What is the ecological significance of lichens? 2018 2nd term
- 4. Dead remains of diatoms are known as 'diatomaceous earth'. Write down two uses of 2019 1st term 'diatamaceous earth'
- 5. Observe the figure.
 - a) Identify the organism.
 - b) Mark the parts labelled as 1 and 2.



2019 1st term

6. Identify the two classes of fungi marked as A and B.



- 7. What is the role of fungus in mycorrhiza? 2020 Model
- 8. Define diatomaceous earth. Mention any one use of diatomaceous earth.
- 9. Define Mycorrhiza. How is Mycorrhizal 2022 June association helpful to plants?
- 10. Write any two uses of Bacteria.

2022 June

- 11. Bacteria are classified into different types based on their shape. Write the name and 2022 Imp shape of each of them.
- 12. a) Define prions.
 - b) Name a disease caused by prions.

 2022 2nd term

- 13. Cell wall deposits of diatoms are called diatomaceous earth.
 - a) Write two uses of it.
 - b) Name the group in which diatoms belong to. 2022 2nd term

2 Marks Questions

The symbiotic association of fungi with roots of higher plants is called mycorrhizae. How is mycorrhizal association helpful to plants?

2014 Imp.

PREVIOUS QUESTIONS XI 2012-2024 : Chapter 1-Biological Classification

- 14. Diatoms, the chief producers in the ocean are useful in many ways. Evaluate the statement.
- 15. Match the following:

A	В
Amoeboid Protozoans	Paramoecium
Flagellated Protozoans	Entamoeba
Ciliated Protozoans	Plasmodium
Sporozoans	Trypanosoma

2023 March

16. Match the following:

A	В
Amoeboid Protozoans	Paramoecium
Flagellated Protozoans	Plasmodium
Ciliated Protozoans	Entamoeba
Sporozoans	Trypanosoma

2023 Imp

- 17. Write two characteristic features of Euglenoids 2023 2nd term
- 18. Cell wall deposits of diatoms are called diatomaceous earth. Write any two uses of it. 2024 Model

3 Marks Questions

- Who proposed five kingdom classification?
 Write down the criteria for this classification.
 (5 criteria).

 2019 1st term
- 2. Diatoms are the chief producers in the ocean.
 - a) Name the group to which diatoms belong.
 - b) What is diatomaceous earth?
 - c) Write two uses of diatomaceous earth. 2023 2nd terr

Answer key

1Mark Questions

- 1. Diatomaceous earth is used in polishing, filtration of oils and syrups
- 2. Monera
- 3. Phycobiont
- 4. Mosaic formation/leaf rolling and curling/ yellowing and vein clearing/ dwarfing and stunted growth(anv two)
- 5. a) Five kingdom classification
 - b) Extreme salty areas
- 6. b) Form blooms in polluted water
- 7. a) Lichen
- b) Bacteriophage
- 8. c) Deuteromycetes
- 9. Spherical
- 10. c) Beijerinck
- 11. Diatomaceous earth is used in polishing, filtration of oils and syrups
- 12. b) (i) and (iv)
- 13. Kingdom Fungi
- 14. Nostoc
- 15. Heterocyst
- 16. iv) All of the above
- 17. Mycoplasma
- 18. Slime mould
- 19. Rhizopus
- 20. (b) Trypanosoma
- 21. (A) Dinoflagellates
- (B) Slime mould

- 22. Prions
- 23. a) Vibrium/Vibrio
- b) Ciliated protozoans
- 24. (c) Methanogens
- 25. Paramoecium
- 26. Euglena
- 27. Thermoacidophiles
- 28. Mycelium
- 29. (c)Virus
- 30. Mycorrhiza
- 31. Yeast
- 32. Eukaryote
- 33. (ii)Saprophytes : absorb organic matter from dead substrates
- 34. Nostoc
- 35. Rhizopus
- 36. Phycobiont
- 37. (c) Prions
- 38. Halophiles Salty areas

2 Marks Questions

- 1. Fungi help to absorb water and nutrients from large areas of soil
- 2. Cell structure, body organisation, mode of nutrition, reproduction, phylogenetic-relationships. *(any four)*
- a) Phycobiont and Mycobiont/Algae and Fungi
 - b) Lichens are very good pollution indicatorsthey do not grow in polluted areas.
- 4. Polishing, filtration of oils and syrups
- 5. a) Tobacco Mosaic Virus (TMV)
 - b) 1. RNA
- 2. Capsid
- 6. A. Ascomycetes
- B. Basidiomycetes
- 7. Help to absorb water and nutrients from large areas of soil
- Diatoms have left behind large amount of cell wall deposits in their habitat; this accumulation over billions of years is referred to as 'diatomaceous earth'.

It is used in polishing, filtration of oils and syrups.(any one use)

Symbiotic association of fungi with roots of higher plants.

HSSLIVE.IN Fungi help to absorb water and nutrients from large areas of soil

- 10. Helpful in making curd from milk, production of antibiotics, fixing nitrogen in legume roots (any two)
- 11. Spherical Coccus (pl.: cocci), the rod-shapedBacillus (pl.: bacilli), the comma-shaped -Vibrium (pl.: vibrio) and the spiral Spirillum (pl.: spirilla)
- 12. a) Prions are abnormally folded protein similar in size to viruses.
 - b) Bovine Spongiform Encephalopathy/BSE/ Mad cow disease in cattle/Cr–Jacob disease (CJD) in humans
- $13.\,$ a) Polishing, filtration of oils and syrups.
 - b) Chrysophytes

syrups

14. Diatoms have left behind large amount of cell wall deposits in their habitat; this accumulation over billions of years is referred to as 'diatomaceous earth'.
It is used in polishing, filtration of oils and

Answer key

15.

A	В
Amoeboid Protozoans	Entamoeba
Flagellated Protozoans	Trypanosoma
Ciliated Protozoans	Paramoecium
Sporozoans	Plasmodium

16.

A	В
Amoeboid Protozoans	Entamoeba
Flagellated Protozoans	Trypanosoma
Ciliated Protozoans	Paramoecium
Sporozoans	Plasmodium

- 17. Majority of them are fresh water organisms found in stagnant water/Instead of a cell wall, they have a protein rich layer called pellicle which makes their body flexible/They have two flagella, a short and a long one/Though they are photosynthetic in the presence of sunlight, when deprived of sunlight they behave like heterotrophs by predating on other smaller organisms/pigments of euglenoids are identical to those present in higher plants (any two)
- 18. Polishing, filtration of oils and syrups.

3 Marks Questions

- R.H. Whittaker
 Cell structure, body organisation, mode of nutrition, reproduction, phylogenetic-relationships.
- 2. a) Chrysophytes
 - b) Cell wall deposits of diatoms over billions of years is referred to as 'diatomaceous earth'.
 - c) Polishing, filtration of oils and syrups.