

# **Biological Classification**

## Introduction

- **1.** Five kingdom system of classification suggested by R.H. Whittaker is not based on (2014)
  - a. Complexity of body organisation
  - b. Presence or absence of a well defined nucleus
  - c. Mode of reproduction
  - d. Mode of nutrition

#### **Kingdom Monera**

**2.** Which of the following is a correct statement?

(2022)

- a. Mycoplasma have DNA, Ribosome and cell wall
- b. Cyanobacteria are a group of autotrophic organisms classified under Kingdom Monera
- c. Bacteria are exclusively heterotrophic organisms
- d. Slime moulds are saprophytic organisms classified under Kingdom Monera.
- **3.** Which of the following is incorrect about Cyanobacteria? (2020-Covid)
  - a. They lack heterocysts
  - b. They often form blooms in polluted water bodies
  - c. They have chlorophyll 'a' similar to green plants
  - d. They are photoautotrophs
- **4.** Oxygen is not produced during photosynthesis by (2018)
  - a. Nostoc
- b. Green sulphur bacteria
- c. Cycas
- d. Chara
- **5.** Which of the following are found in extreme saline conditions? (2017-Delhi)
  - a. Archaebacteria
- b. Eubacteria
- c. Cyanobacteria
- d. Mycobacteria
- **6.** Which among the following are the smallest living cells, known without a definite cell wall, pathogenic to plants as well as animals and can survive without oxygen? (2017-Delhi)
  - a. Bacillus
- b. Pseudomonas
- c. Mycoplasma
- d. Nostoc

7. Methanogens belong to:

(2016 - II)

- a. Dinoflagellates
- b. Slime moulds
- c. Eubacteria
- d. Archaebacteria
- **8.** Which one of the following statements is wrong? (2016 I)
  - a. Cyanobacteria are also called blue-green algae
  - b. Golden algae are also called desmids
  - c. Eubacteria are also called false bacteria
  - d. Phycomycetes are also called algal fungi
- **9.** The primitive prokaryotes responsible for the production of biogas from the dung of ruminant animals, include the:

(2016 - I)

- a. Halophiles
- b. Thermoacidophiles
- c. Methanogens
- d. Eubacteria
- 10. True nucleus is absent in:
- (2015)

- a. Vaucheria
- b. Volvox
- c. Anabaena
- d. Mucor
- 11. The gut of cow and buffalo possess:
- ssess: (2015)
  - a. Methanogens
- b. Cyanobacteria
- c. Fucus
- d. Chlorella
- 12. Cell wall is absent in:
- (2015 Re)
- a. Funaria
- b. Mycoplasma
- c. Nostoc
- d. Aspergillus
- 13. Archaebacteria differ from Eubacteria in:
- bacteria in: (2014)
  - a. Mode of reproduction
- b. Cell membrane structure
- c. Mode of nutrition
- d. Cell shape

#### **Kingdom Protista**

**14.** Select the wrong statement

- (2018)
- a. Cell wall is present in members of Fungi and Plantae
- b. Mushrooms belong to Basidiomycetes
- c. Pseudopodia are locomotory and feeding structures in Sporozoans
- d. Mitochondria are the powerhouse of the cell in all kingdoms except Monera
- **15.** Which of the following organisms are known as chief producers in the oceans? (2018)
  - a. Dinoflagellates
- b. Diatoms
- c. Cyanobacteria
- d. Euglenoids



(2015)

- 16. Ciliates differ from all other protozoans in
  - a. Using flagella for locomotion
  - b. Having a contractile vacuole for removing excess water
  - c. Using pseudopodia for capturing prey
  - d. Having two types of nuclei
- **17.** Select the wrong statement:

(2016 - II)

(2018)

- a. Diatoms are chief producers in the oceans
- b. Diatoms are microscopic and float passively in water
- c. The walls of diatoms are easily destructible
- d. 'Diatomaceous earth' is formed by the cell wall of diatoms.
- 18. Chrysophytes, Euglenoids, Dinoflagellates and Slime moulds are included in the kingdom: (2016 - I)
  - a. Animalia
- b. Monera
- c. Protista
- d. Fungi
- 19. In which group of organisms the cell walls form two thin overlapping shells which fit together? (2015 Re)
  - a. Euglenoids
- b. Dinoflagellates
- c. Slime moulds
- d. Chrysophytes

## Kingdom Fungi

**20.** Which of the following statements is correct?

(2021)

- a. Fusion of protoplasms between two motile or non-motile gametes is called plasmogamy.
- b. Organisms that depend on living plants are called saprophytes.
- c. Some of the organisms can fix atmospheric nitrogen in specialized cells called sheath cells.
- d. Fusion of two cells is called Karyogamy.
- 21. Which of the following statements is **incorrect**? [OS] (2019)
  - a. Morels and truffles are edible delicacies.
  - b. Claviceps is a source of many alkaloids and LSD.
  - c. Conidia are produced exogenously and ascospores endogenously.
  - d. Yeasts have filamentous bodies with long thread-like hyphae.
- 22. After karyogamy followed by meiosis, spores are produced exogenously in (2018)
  - a. Neurospora
- b. Alternaria
- c. Agaricus
- d. Saccharomyces
- 23. Which one of the following is wrong for fungi? (2016 II)
  - a. They are heterotrophic
  - b. They are both unicellular and multicellular
  - c. They are eukaryotic
  - d. All fungi possess a purely cellulosic cell wall
- 24. One of the major components of cell wall of most fungi is: (2016 - I)
  - a. Chitin
- b. Peptidoglycan
- c. Cellulose
- d. Hemicellulose

**25.** Which one of the following matches is correct?

a.	Mucor	Reproduction by Conjugation	Ascomycetes
b.	Agaricus	Parasitic fungus	Basidiomycetes
c.	Phytophthora	Aseptate mycelium	Basidiomycetes
d.	Alternaria	Sexual reproduction absent	Deuteromycetes

**26.** Choose the wrong statements:

(2015 Re)

- a. Neurospora is used in the study of biochemical genetics
- b. Morels and truffles are poisonous mushrooms
- c. Yeast is unicellular and useful in fermentation
- d. *Penicillium* is multicellular and produces antibiotics
- 27. The imperfect fungi which are decomposer of litter and help in mineral cycling belong to: (2015 Re)
  - a. Basidiomycetes
- b. Phycomycetes
- c. Ascomycetes
- d. Deuteromycetes
- 28. Which one of the following fungi contains hallucinogens? **[OS]** (2014)
  - a. Ustilago sp.
- b. Morchella esculenta
- c. Amanita muscaria
- d. Neurospora sp.

# Kingdom Animalia

**29.** Pick up the wrong statement:

(2015 Re)

- a. Protista has photosynthetic and heterotrophic modes of nutrition
- b. Some fungi are edible
- c. Nuclear membrane is present in Monera
- d. Cell wall is absent in Animalia
- 30. Which one of the following living organisms completely lacks a cell wall? (2014)
  - a. Blue green algae
- b. Cyanobacteria
- c. Sea fan (Gorgonia)
- d. Saccharomyces

#### Viruses, Viroids, Prions & Lichens

- 31. Which of the following is correct about viroids? (2020)
  - a. They have free RNA without protein coat.
  - b. They have DNA with protein coat.
  - c. They have free DNA without protein coat.
  - d. They have RNA with protein coat.
- **32.** Which of the following statement is incorrect? (2019)
  - a. Viroids lack a protein coat.
  - b. Viruses are obligate parasites.
  - c. Infective constituent in viruses is the protein coat.
  - d. Prions consist of abnormally folded proteins.
- **33.** Viroids differ from viruses in having:

(2017-Delhi)

- a. DNA molecules with protein coat
- b. DNA molecules without protein coat
- c. RNA molecules with protein coat
- d. RNA molecules without protein coat

3

**34.** Which of the following statements is wrong for viroids?

(2016 - I)

- a. They lack a protein coat
- b. They are smaller than viruses
- c. They causes infections
- d. Their RNA is of high molecular weight
- **35.** Which of the following are most suitable indicators of  $SO_2$  pollution in the environment? [OS] (2015 Re)
  - a. Conifers

b. Algae

c. Fungi

d. Lichens

**36.** Select the wrong statements:

(2015 Re)

- a. W.M. Stanley showed that viruses could be crystallised
- b. The term 'Contagium vivum fluidum' was coined by M.W. Beijerinek
- c. Mosaic disease in tobacco and AIDS in human being are caused by viruses
- d. The viroids were discovered by D.J. Ivanowsky

**37.** Viruses have:

(20

- a. Both DNA and RNA
- b. DNA enclosed in a protein coat
- c. Prokaryotic nucleus
- d. Single chromosome
- **38.** A location with luxuriant growth of lichens on the trees indicates that the: (2014)
  - a. Location is not polluted
  - b. Trees are very healthy
  - c. Trees are heavily infested
  - d. Location is highly polluted
- **39.** Which of the following shows coiled RNA strand and capsomeres? (2014)
  - a. Retrovirus
  - b. Polio virus
  - c. Tobacco mosaic virus
  - d. Measles virus

# **Answer Key**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
b	b	a	b	a	c	d	c	c	c	a	b	b	c	b	d	c
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
c	d	a	d	c	d	a	d	b	d	c	c	c	a	c	d	d
35	36	37	38	39												
d	d	h	а	C												