

1. Match List I with List II (2024)

List – I

List – II

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|-------------|------------------|
| A. Rhizopus | I. Mushroom |
| B. Ustilago | II. Smut fungus |
| C. Puccinia | III. Bread mould |
| D. Agaricus | IV. Rust fungus |

Choose the correct answer from the options given below:

- (a) A – I, B – III, C – II, D – IV
(b) A – III, B – II, C – I, D – IV
(c) A – IV, B – III, C – II, D – I
(d) A – III, B – II, C – IV, D – I

2. Which one of the following is not a criterion for classification of fungi? (2024)

- (a) Mode of nutrition
(b) Mode of spore formation
(c) Fruiting body
(d) Morphology of mycelium

3. Identify the reproductive structure associated with Penicillium: (2022)

- (a) Conidia (b) Gemmules
(c) Buds (d) Zoospores

4. Given below are two statements :

Statement I: Mycoplasma can pass through less than 1 micron filter size.

Statement II: Mycoplasma are bacteria with cell wall In the light of the above statements, choose the most appropriate answer from the options given below:

- (2022)
- (a) Both Statement I and Statement II are incorrect
(b) Statement I is correct but Statement II is incorrect
(c) Statement I is incorrect but Statement II is correct
(d) Both Statement I and Statement II are correct

5. Which of the following is a correct statement ? (2022)

- (a) Bacteria are exclusively heterotrophic organisms.
(b) Slime moulds are saprophytic organisms classified under Kingdom Monera.
(c) Mycoplasma have DNA, Ribosome and cell wall
(d) Cyanobacteria are a group of autotrophic organisms classified under Kingdom

Monera.

6. Which of the following statements is correct? (2021)

- (a) Fusion of protoplasts 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.

7. 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.

8. Which of the following is incorrect about Cyanobacteria? (2020 Covid Re-NEET)

- (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

9. 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.
10. Which of the following statements is incorrect? **(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.
11. 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
12. After karyogamy followed by meiosis, spores are produced exogenously in **(2018)**
 (a) Neurospora
 (b) Alternaria
 (c) Agaricus
 (d) Saccharomyces
13. Oxygen is not produced during photosynthesis by **(2018)**
 (a) Nostoc
 (b) Green sulphur bacteria
 (c) Cycas
 (d) Chara
14. Which of the following organisms are known as chief producers in the oceans? **(2018)**
 (a) Dinoflagellates
 (b) Diatoms
 (c) Cyanobacteria
 (d) Euglenoids
15. Ciliates differ from all other protozoans in **(2018)**
 (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
16. Which of the following are found in extreme saline conditions? **(2017)**
 (a) Archaeobacteria
 (b) Eubacteria
 (c) Cyanobacteria
 (d) Mycobacteria
17. 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)**
 (a) Bacillus
 (b) Pseudomonas
 (c) Mycoplasma
 (d) Nostoc
18. Viroids differ from viruses in having: **(2017)**
 (a) DNA molecules with protein coat
 (b) DNA molecules without protein coat
 (c) RNA molecules with protein coat
 (d) RNA molecules without protein coat
19. An example of flagellate protozoan is: **(2017)**
 (a) Paramecium
 (b) Trypanosoma
 (c) Entamoeba
 (d) Plasmodium
20. Which of the following is not true of organisms in the kingdom Monera? **(2017)**
 (a) They originated at least 3.5 billion years ago
 (b) They have prokaryotic cellular organisation
 (c) They may be autotrophic or heterotrophic in nature
 (d) They reproduce by mitosis
21. Select the sac fungus: **(2017)**
 (a) Albugo (b) Agaricus
 (c) Neurospora (d) Mucor

- 22.** The protein coat around a virus is called: **(2017)**
 (a) Capsule (b) Core
 (c) Capsid (d) Trichome
- 23.** Select the wrong statement: **(2016-II)**
 (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.
- 24.** Methanogens belong to: **(2016-II)**
 (a) Dinoflagellates
 (b) Slime moulds
 (c) Eubacteria
 (d) Archaeobacteria
- 25.** 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
- 26.** 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
- 27.** Chrysophytes, Euglenoids, Dinoflagellates and Slime moulds are included in the kingdom: **(2016 - I)**
 (a) Animalia (b) Monera
 (c) Protista (d) Fungi
- 28.** 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
- 29.** One of the major components of cell wall of most fungi is: **(2016 - I)**
 (a) Chitin
 (b) Peptidoglycan
 (c) Cellulose
 (d) Hemicellulose
- 30.** 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
- 31.** Which one of the following matches is correct? **(2015)**
- | | | | |
|-----|--------------|-----------------------------|----------------|
| (a) | Mucor | Reproduction by Conjugation | Ascomycetes |
| (b) | Agaricus | Parasitic fungus | Basidiomycetes |
| (c) | Phytophthora | Aseptate mycelium | Basidiomycetes |
| (d) | Alternaria | Sexualm Reproduction absent | Deuteromycetes |
- 32.** The gut of cow and buffalo possess: **(2015)**
 (a) Methanogens (b) Cyanobacteria
 (c) Fucus (d) Chlorella
- 33.** True nucleus is absent in: **(2015)**
 (a) Vaucheria (b) Volvox
 (c) Anabaena (d) Mucor
- 34.** 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
- 35.** In which group of organism the cell walls form two thin overlapping shells which fit together? **(2015 Re)**
 (a) Euglenoids (b) Dinoflagellates
 (c) Slime moulds (d) Chrysophytes

- 36.** Which of the following are most suitable indicators of SO₂ pollution in the environment? **(2015 Re)**
 (a) Conifers (b) Algae
 (c) Fungi (d) Lichens
- 37.** Cell wall is absent in: **(2015 Re)**
 (a) Funaria (b) Mycoplasma
 (c) Nostoc (d) Aspergillus
- 38.** 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. Beijerinck
 (c) Mosaic disease in tobacco and AIDS in human being are caused by viruses
 (d) The viroids were discovered by D.J. Ivanowsky
- 39.** 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
- 40.** 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
- 41.** Viruses have: **(2014)**
 (a) Both DNA and RNA
 (b) DNA enclosed in a protein coat
 (c) Prokaryotic nucleus
 (d) Single chromosome
- 42.** 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
- 43.** 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
- 44.** 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
- 45.** Which one of the following fungi contains hallucinogens? **(2014)**
 (a) Ustilago sp.
 (b) Morchella esculenta
 (c) Amanita muscaria
 (d) Neurospora sp.
- 46.** Archaeobacteria differ from Eubacteria in: **(2014)**
 (a) Mode of reproduction
 (b) Cell membrane structure
 (c) Mode of nutrition
 (d) Cell shape
- 47.** Which of the following shows coiled RNA strand and capsomeres? **(2014)**
 (a) Retrovirus
 (b) Polio virus
 (c) Tobacco mosaic virus
 (d) Measles virus
- 48.** Pigment-containing membranous extensions in some cyanobacteria are: **(2013)**
 (a) Chromatophores
 (b) Heterocyst's
 (c) Basal bodies
 (d) Pneumatophores