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| **Neha Malhotra**  **R.L. Institute M: 9416974837**  **Class : XI**  **“BIOLOGICAL CLASSIFICATION”** |

**Max Time : 1 hr Worksheet Max Marks = 140**

1. Helically coiled shaped bacteria are called :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Spirilla | b) Cocci | c) Bacilli | d) vibrio |

1. The conditions which would be favoured by Thermoacidophiles are :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Hot and alkaline | b) snow and acidic | c)Hot and sulphur spring | d) Gut of cows |

1. In bacteria, the sites for respiratory activity is found in :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Episomes | b) Microsomes | c) Ribosome | d) Mesosomes |

1. Nutritionally bacteria are :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Heterotroph | b) Symbiotic | c) Parasitic | d) All of these |

1. In prokaryotes, the genetic material is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Linear DNA with histones | b) Circular DNA with histones | c) Linear DNA without histones | d) Circular DNA without histones |

1. In which of the following are heterocysts seen?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Chara | b) Polysiphonia | c) Spirogyra | d) Nostoc |

1. Which of the following statements regarding cyanobacteria is incorrect?

|  |  |
| --- | --- |
| a) It is also called blue green algae | b) They are chemosynthetic autotrophs |
| c) It forms bloom in polluted water bodies | d) It is unicellular ,colonial or filamentous |

1. Which of the following ranked as one of the most devastating diseases is caused by a protist?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Ringworm | b) AIDS | c) Malaria | d) None of these |

1. Diatoms frustule/shell is made up of :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Silica | b) lime | c) Magnesium carbonate | d) Any of the above |

1. Locomotary structures are absent in :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Sprozoans | b) Ciliates | c) zooflagellates | d) Rhizopods |

1. The given statements are some characters of a particular group of kingdom protists.
2. Most of them are fresh water organisms found in standing water.
3. They have a protein rich layer (called pellicle) which makes their body flexible.
4. They have two flagella, a short and a long.
5. Though, they are photosynthetic in the presence of sunlight they behave like heterotrophs by predating on other smaller organisms.

Identify the correct group on the basis of these characters.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Protozoans | b) Chrysophytes | c) slime moulds | d) Euglenoids |

1. Match column I and column II

|  |  |  |
| --- | --- | --- |
| Column I | Column II | |
| A. Chrysophytes | I. Paramecium | |
| B. Dinoflagellates | II. Euglena | | |
| C. Euglenoids | III. Gonyaulax | |
| D. Protozoans | IV. Diatoms | |
| a) A – I ; B – III ; C – II ; D – IV | | | b) A – II ; B – IV ; C – III ; D – I | | |
| c) A – IV ; B – II ; C – III ; D – I | | | d) A – IV ; B – III ; C – II ; D – I | | |

1. Morels and Truffles groups of fungi are classified as :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Phycomycetes | b) Deuteromycetes | c) Basidiomycetes | d) Ascomycetes |

1. Ergot is caused by :

|  |  |  |  |
| --- | --- | --- | --- |
| a) *Claviceps* | b) *Penicillium* | c) *Aspergillus* | d) *Rhizobium* |

1. When fungi feed on dead organic matter, they are known as :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Dimorphic | b) Parasites | c) Saprophytes | d) None of these |

1. Dikaryon formation is characteristic of :

|  |  |
| --- | --- |
| a) Ascomycetes and Basidiomycetes | b) Phycomycetes and Basidiomycetes |
| c) Ascomycetes and Phycomycetes | d) Phycomycetes and Zygomycetes |

1. The cell wall of fungi is made up of :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Chitin | b) Cellulose | c) Pectin | d) Suberin |

1. Common bread mould is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Yeast | b) Rhizopus | c) Bacteria | d) Virus |

1. Match column I and column II

|  |  |  |
| --- | --- | --- |
| Column I | Column II | |
| A. Phycomycetes | I. Asexual reproduction by conidia | |
| B. Ascomycetes | II. Aseptate and coenocytic mycelium | | |
| C. Basidiomycetes | III. Mostly decomposers | |
| D. Deuteromycetes | IV. Branched and septate mycelium | |
| a) A – II ; B – I ; C – IV ; D – III | | | b) A – II ; B – IV ; C – I ; D – III | | |
| c) A – IV ; B – I ; C – II ; D – III | | | d) A – IV ; B – III ; C – II ; D – I | | |

1. Read the following statements and answer the question :
2. It includes unicellular as well as multicellular fungi
3. In multicellular forms , hyphae are branched and septate
4. Conidiophore produces conidia exogenously in chain
5. Sexual spores are ascospores produced endogenously
6. Fruiting body is called ascocarp.

Identify the correct class of fungi which have all the above given characteristics.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Phycomycetes | b) Sac fungi | c) Club fungi | d) Fungi imperfecti |

1. Match column I and column II

|  |  |  |
| --- | --- | --- |
| Column I | Column II | |
| A. Edible delicacies | *I. Penicillium , Streptomyces* | |
| B. Experimental genetics | *II. Neurospora crassa* | | |
| C. Source of Antibiotics | *III. Puccinia , Ustilago* | |
| D. Rust and smut diseases | *IV. Morels and Truffles* | |
| a) A – IV ; B – II ; C – III ; D – I | | | b) A – III ; B – I ; C – II ; D – IV | | |
| c) A – IV ; B – II ; C – I ; D – III | | | d) A – IV ; B – III ; C – II ; D – I | | |

1. A bacteriophage is :

|  |  |
| --- | --- |
| a) A virus attacking a bacterium | b) A bacterium attacking a virus |
| c) A stage in the life cycle of bacterium | d) A virus attacking another virus |

1. Capsid is :

|  |  |
| --- | --- |
| a) Genetic material of virus | b) Protein cover of virus |
| c) Extra genetic material of bacterium | d) House keeping genome of bacterium |

1. The genetic material of Tobacco Mosaic Virus is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) ssDNA | b) dsDNA | c) dsRNA | d) ssRNA |

1. The symbiotic association of fungi and algae is called :

|  |  |  |  |
| --- | --- | --- | --- |
| a) lichen | b) Mycorrhiza | c) Rhizome | d) Endomycorrhiza |

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1. Thread like filaments of fungi are known as :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Conidia | b) Mycorrhiza | c) Sporangium | d) Hyphae |

1. Red tides often cause massive fish kills and human illness in those eating shell fish. Which group of protists is responsible for red tides?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Chlorophyta | b) Rhodophyta | c) Phaeophyta | d) Dinoflagellates |

1. The chief component of bacterial cell wall is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cellulose and chitin | b) Cellulose and pectin | c) A.A. and polysaccharides | d) Cellulose and carbohydrates |

1. Bacteria whose cell has only a curve/comma is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Vibrio | b) Cocci | c) Spirilla | d) Bacilli |

1. An organisms having cytoplasm DNA and RNA but no cell wall is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cyanobacterium | b) Mycoplasma | c) Bacterium | d) Virus |

1. Archaea bacteria differ from eubacteria in one of the following features :

|  |  |
| --- | --- |
| a) They have a rigid wall | b) Their cell wall lacks peptidoglycan component |
| c) They have 16 S RNA | d) They are very ancient |

1. In Whittaker’s system of classification, prokaryotes are placed in the kingdom :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Protista | b) Monera | c) Plantae | d) Animalia |