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**Subject: Biology**

**Topic: Monera & Protista**

**M.M. 200 COMPETITIVE TEST**  **Time: 60 Min.**

1. Gram positive cells retain :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Yellow stain | b) Pink stain | c) Green stain | d) Purple stain |

1. Which bacteria would function best in hot temperatures (60 – 80˚C )?

|  |  |
| --- | --- |
| a) Psychorphiles | b) Thermoacidophiles |
| c) Mesophiles | d) None of these |

1. Helically coiled shaped bacteria are called

|  |  |  |  |
| --- | --- | --- | --- |
| a) Spirillum | b) Coccus | c) Vibrio | d) Bacilli |

1. Bacteria having two or more flagella at one end

|  |  |  |  |
| --- | --- | --- | --- |
| a) Amphitrichous | b) Cephalotrichous | c) Peritrichous | d) Lophotrichous |

1. Archaebacteria different from bacteria in one of the following features.

|  |  |
| --- | --- |
| a) They have a rigid wall | b) Their cell walls lacks peptidoglycan component |
| c) They have different mode of nutrition | d) They are very ancient |

1. Sex factor in bacteria is

|  |  |
| --- | --- |
| a) Chromosomal replicon | b) F - factor |
| c) RNA | d) Sex-Pilus |

1. In bacteria the site of respiratory activity is found in

|  |  |  |  |
| --- | --- | --- | --- |
| a) Episomes | b) Microsome | c) Ribosome | d) Mesosome |

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. Bacteria whose cell has only a comma shape is

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

1. An organism having cytoplasmic DNA and RNA but no cell wall is

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

1. In which of the following heterocysts are seen

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

1. Which of the following fixes atmospheric N2?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Nostoc | b) Algae | c) Methanogens | d) None of these |

1. Plasmodium the parasite, belongs to class:

|  |  |  |  |
| --- | --- | --- | --- |
| a) Sarcodina | b) Ciliata | c) Sporozoa | d) Dinophyceae |

1. In Protists, locomotary organ are:

|  |  |
| --- | --- |
| a) Flagella | b) Flagella , cilia & pseudopodia |
| c) Flagella & cilia | d) Flagella , cilia , pseudopodia & wrigglers |

1. Diatoms frustule/shell is made up of :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Silica | b) Lime | c) Magnesium carbonate | d) None of these |

1. Amoebic dysentery is caused by

|  |  |  |  |
| --- | --- | --- | --- |
| a) *Entamoeba histolitica* | b) *Entamoeba gingivalis* | c) *Entamoeba coli* | d) A*moeba proteus* |

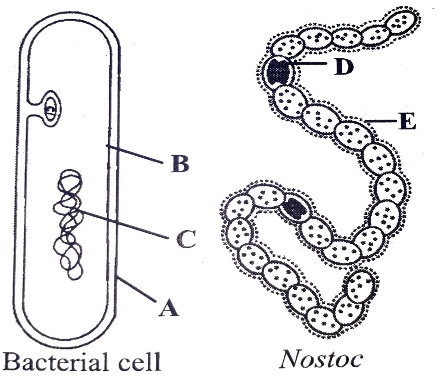
1. Primary grouping of protozoan protists is based on

|  |  |  |  |
| --- | --- | --- | --- |
| a) Locomotary organelle | b) Size & shape | c) Mode of feeding | d) Mode of reproduction |

1. Protista includes:

|  |  |
| --- | --- |
| a) *Euglena, Gonyaulax* & *Yeast* | b) *Amoeba, Paramecium* & *Hydra* |
| c) *Euglena, Paramecium* & *Mushroom* | d) *Amoeba, Paramecium* & *Gonyaulax* |

1. Which one of the following option is correct?



a) A – Cell wall ; B – Cell membrane ; C – Heterocyst ; D – DNA ; E – Mucilaginous sheath

b) A – Cell wall ; B – Cell membrane ; C – DNA ; D – Heterocyst ; E – Mucilaginous sheath

c) A – Mucilaginous sheath ; B – Cell membrane ; C – DNA ; D – Heterocyst ; E – Cell wall

d) A – Cell membrane ; B – Cell wall ; C – DNA ; D – Heterocyst ; E – Mucilaginous sheath

1. Which of the following statements given below are correct?
2. Biological classification is the scientific ordering of organisms in a hierachial series on the basis of their relationships i.e. morphological, evolutionary and others.
3. Whittaker classified organisms on the basis of autotropic and heterotropic mode of nutrition
4. In five kingdom classification living organisms can be divided into prokaryotes and eukaryotic cells on the basis of cell structure.

|  |  |  |  |
| --- | --- | --- | --- |
| a) (i) , (ii) & (iii) | b) (i) & (iii) | c) (ii) & (iii) | d) (i) & (ii) |

1. Considered the following statements with respect to characteristic features of the kingdom.
2. In Animalia, the mode of nutrition is autotropic.
3. In Monera, the nuclear membrane is present.
4. In Protista, the cell type is prokaryotic.
5. In Plantae, The cell wall is present.

Of the above statements, which one is correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a) only (i) | b) only (ii) | c) only (iii) | d) only (iv) |

1. Match column I and column II

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column I | | Column II | | |
| A. Obligate aerobes | | I. Ordinary aerobic but may also grow in absence of O2 | | |
| B. Facultative anaerobes | | II. Can grow only in absence of O2 | | |
| C. Obligate anaerobes | | III. Ordinary anaerobic but may also grow in presence of O2 | | |
| D. Facultative aerobes | | IV. Can grow only in Presence of O2 | | |
| a) A – II ; B – III ; C – IV ; D – I | | b) A – IV ; B – I ; C – II ; D – III |
| c) A – IV ; B – I ; C – III ; D – II | | d) A – IV ; B – II ; C – III ; D – I |

1. Match column I and column II

|  |  |
| --- | --- |
| Column I | Column II |
| A. Rod shape | I. Coccus |
| B. Spherical | II. Bacillus |
| C. Spiral shape | III. Vibrio |
| D. Comma shaped | IV. Spirillum |

|  |  |
| --- | --- |
| a) A – III ; B – II ; C – I ; D – IV | b) A – IV ; B – III ; C – II ; D – I |
| c) A – II ; B – I ; C – IV ; D – III | d) A – I ; B – IV ; C – III ; D – II |

1. The given characters are seen in which of the following groups?
2. Unicellular, colonial, filamentous, marine and terrestrial.
3. The colonies are surrounded by a gelatinous sheath.
4. Some can fix atmospheric nitrogen in specialized cells.
5. They often forms algal blooms in water bodies.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Archaebacteria | b) Cyanobacteria | c) Chrysopytes | d) Dinoflagellates |

1. Match column I and column II

|  |  |
| --- | --- |
| Column I  (Type of Protozoans) | Column II  (Examples) |
| A. Amoeboid protozoans | I. *Paramecium* |
| B. Ciliated protozoans | II. *Plasmodium* |
| C. Flagellated protozoans | III.  *Amoeba* |
| D. Sporozoans | IV. *Trypanosoma* |

|  |  |
| --- | --- |
| a) A – I ; B – III ; C – IV ; D – II | b) A – III ; B – I ; C – II ; D – IV |
| c) A – III ; B – I ; C – IV ; D – II | d) A – III ; B – IV ; C – I ; D – II |

1. Which of the following organisms are known as “Chief producers in the oceans”.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Dinoflagellates | b) Diatoms | c) Euglenoids | d) Cyanobacteria |

1. Which of the following are found in extreme saline conditions?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Eubacteria | b) Cyanobacteria | c) Mycobacteria | d) Archaebacteria |

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

a) It is also called blue green algae

b) They are chemosynthetic heterotrophs

c) It forms blooms in polluted water bodies

d) It is unicellular, colonial or filamentous, marine or terrestrial bacteria

1. The major source of Phylogenetic system of classification is

|  |  |
| --- | --- |
| a) Finding our lineages from fossils history | b) Anatomical studies |
| c) Complexity of structure | d) Chromosome studies |

1. Fusion of two motile gametes which are dissimilar in size are called

|  |  |  |  |
| --- | --- | --- | --- |
| a) Oogamy | b) Isogamy | c) Anisogamy | d) Zoogamy |

1. Cell wall of bacteria is formed of

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cellulose | b) Chitin | c) Protein | d) Mucopeptide |

1. In archaebacteria cell wall is made up of

|  |  |
| --- | --- |
| a) Peptidoglycan | b) Non cellulosic polysaccharides |
| c) Pseudomurein | d) Both (B) & (C) |

1. Tricodesmium erythrium of red sea is

|  |  |
| --- | --- |
| a) Archaebacteria | b) Cyanobacteria |
| c) Saprophytic bacteria | d) Denitrifying bacteria |

1. Highly successful autotropic organism are

|  |  |
| --- | --- |
| a) Chemoautotrophic bacteria | b) Cyanobacteria |
| c) Photoautotrophic bacteria | d) Both (a) & (c) |

1. Which blue green algae is being used as food supplement for humans and animals

|  |  |  |  |
| --- | --- | --- | --- |
| a) Spirulina | b) Anabaena | c) Nostoc | d) Microcystis |

1. Which is true for mycoplasma?

|  |  |
| --- | --- |
| a) They lack cell wall | b) They have the smallest cells |
| c) They can survive without oxygen | d) All the above |

1. Which of the following component provide sticky character to bacterial cell.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cell wall | b) Nuclear membrane | c) Plasma membrane | d) Glycocalyx |

1. Oxygen is not produced during photosynthesis by

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cycas | b) Nostoc | c) green sulphur bacteria | d) Chara |

1. Which species of plasmodium is least harmful

|  |  |  |  |
| --- | --- | --- | --- |
| a) P.ovale | b) P. vivax | c) P.flaciparum | d) P.malariae |

1. The beautiful diatoms and desmids are placed under

|  |  |  |  |
| --- | --- | --- | --- |
| a) Chrysophytes | b) Dinoflagellates | c) Euglenoids | d) Slime moulds |

1. Which of the following human pathogen is flagellated protozoan?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Plasmodium | b) Trypanosoma | c) Taenia | d) Entamoeba |

1. Select the wrong statement

|  |  |
| --- | --- |
| a) The walls of diatoms are easily destructible | b) ‘Diatomaceous earth’ is formed by cell wall |
| c) Diatoms are chief producers in the ocean | d) Diatoms are microscopic and float passively |

1. Ciliates differ from other protozoan in

|  |  |
| --- | --- |
| a) Using flagella for locomotion | b) Having contractile vacuole for removing waste |
| c) Using pseudopodia for capturing prey | d) Having 2 types of nuclei |

1. Euglenoids have

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cell membrane | b) Cell wall | c) Pellicle | d) Shell |

1. Euglenoids store reserve food as

|  |  |  |  |
| --- | --- | --- | --- |
| a) Glycogen | b) Glucose | c) Paramylon | d) Starch |

1. Euglena shows characters of both

|  |  |
| --- | --- |
| a) Algae & fungi | b) Plants & animals |
| c) Xerophytes and pteridophytes | d) Parasites & Free living |

1. The cyanobacteria are also referred as

|  |  |  |  |
| --- | --- | --- | --- |
| a) Protists | b) Golden algae | c) Slime moulds | d) Blue green algae |

1. Organisms celled methanogens are must abundant in a

|  |  |  |  |
| --- | --- | --- | --- |
| a) Sulphur rock | b) Cattle dung | c) Polluted stream | d) Hot spring |

1. The motile bacteria are able to move by

|  |  |  |  |
| --- | --- | --- | --- |
| a) Fimbriae | b) Flagella | c) Cilia | d) Pili |

1. One of the major component of cell wall of fungi is

|  |  |  |  |
| --- | --- | --- | --- |
| a) Chitin | b) Cellulose | c) Peptidoglycan | d) Hemicellulose |

**Answers**

**Topic: MONERA & PROTISTA [Class =11th]**

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| --- |
| 1. d |
| 1. b |
| 1. a |
| 1. d |
| 1. b |
| 1. b |
| 1. d |
| 1. d |
| 1. a |
| 1. b |
| 1. d |
| 1. a |
| 1. c |
| 1. b |
| 1. a |
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| 1. c |
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| 1. c |

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| 1. d |
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| 1. a |
| 1. b |
| 1. a |
| 1. d |
| 1. c |
| 1. c |
| 1. b |
| 1. d |
| 1. b |
| 1. b |
| 1. a |