

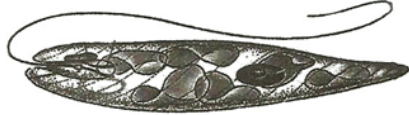
Class : XI<sup>th</sup>  
Date :

Subject : BIOLOGY  
DPP No. :2

## Topic :- Biological Classification

- Which is correct for bacteria?
  - They have both cyclic and non-cyclic photophosphorylation
  - They absorb light  $> 900$  nm of wavelength
  - They release  $O_2$  during photosynthesis
  - They use  $H_2O$  during photosynthesis
- Consider the following statements
  - In this group, the *Plasmodium* differentiates and forms fruiting bodies, bearing spores at their tips
  - Spores possess true walls
  - The spores are dispersed by air currents
  - The spores are extremely resistant and survive for many years even under adverse conditionsThe above statements are assigned to
  - Euglenoid
  - Slime moulds
  - Dinoflagellates
  - Chrysophytes
- Purified antibiotic penicillin of *Penicillium notatum* was discovered by
  - Alexander Fleming
  - Howard Floxy
  - Robert Hooke
  - Carolus Linnaeus
- Thermococcus*, *Methanococcus* and *Methanobacterium* are
  - Archaeobacteria having eukaryotic histone homologue
  - Bacteria with cytoskeleton
  - Archaeobacteria with negatively supercoiled DNA as eukaryotes but lacking histones
  - Bacteria having positively coiled DNA, cytoskeleton, mitochondria
- Identify the correct pair of events when temperate phages infect bacteria.
  - No prophages are formed
  - Bacterial cell undergoes many divisions.
  - Bacterial cell undergoes immediate lysis.
  - Prophages are formedThe correct pair is
  - I and II
  - II and III
  - III and IV
  - II and IV

6. Which of the following is an edible fungi?  
 a) *Mucor*                      b) *Penicillium*                      c) *Agaricus*                      d) *Rhizopus*
7. Animal cells do not have  
 a) Plasma membrane    b) Cell wall                      c) Chloroplast only                      d) Both (a) and (c)
8. Which group of organisms is represented by the given figure?



- a) Dinoflagellates                      b) Protozoans                      c) Slime mould                      d) Euglenoids
9. State whether the given statements are true or false  
 I. Five kingdom system of classification did not differentiate between the heterotrophic group, fungi and the autotrophic green plants, though they showed a characteristic difference in their walls composition.  
 II. Fungi wall contains chitin, while the green plants have a cellulosic cell wall

**Codes**

- a) I is true, but II is false                      b) I is false, but II is true  
 c) I and II are true                      d) I and II are false
10. Under favourable conditions slime moulds form  
 a) *Protonema*                      b) *Plasmodium*                      c) Mycelium                      d) Fruiting bodies
11. Which of the following class of fungi helps in mineral cycling?  
 a) Deuteromycetes                      b) Basidiomycetes  
 c) Ascomycetes                      d) Phycomycetes
12. Teichoic acid is present in  
 a) Cell wall of Gram positive bacteria                      b) Cell wall of Gram negative bacteria  
 c) Capsid of virus                      d) Protoplasm of mycoplasma
13. Red tide in warm coastal water is caused due to the rapid multiplications of  
 a) Euglena                      b) Diatoms                      c) *Gonyaulax*                      d) *Paramecium*
14. Which of the following groups are placed under the kingdom-Protista?  
 a) Crysophytes                      b) Dinoflagellate and euglenoids  
 c) Slime moulds and protozoans                      d) All of the above
15. Which of the following statements is correct with respect to *Colletotrichum falcatum*?  
 a) The conidia and conidiophores are aseptate mycelium and setae are septate  
 b) The conidia, conidiophores, mycelium and setae are septate  
 c) The conidia are aseptate conidiophores, mycelium and setae septate  
 d) The mycelium is septate conidia, conidiophores and setae are aseptate

16. Ainsworth put *Rhizopus* in  
a) Zygomycotina      b) Mastigomycotina      c) Myxomycotina      d) Ascomycotina
17. The disease caused by virus which is 42 nm in size and contains double stranded DNA is  
a) Hepatitis-A      b) AIDS      c) Hepatitis-B      d) Leprosy
18. The disease caused by *Trypanosoma* is  
a) Yellow fever      b) Sleeping sickness      c) Kala azar      d) Hey fever
19. In which animal, dimorphic nucleus is found?  
a) *Amoeba*      b) *Trypanosoma gambiense*  
c) *Plasmodium vivax*      d) *Paramecium caudatum*
20. Kingdom-Monera consists of  
a) Unicellular eukaryotes      b) Multicellular eukaryotes  
c) Bacteria      d) Both (a) and (c)