

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

Subject : BIOLOGY  
DPP No. : 6

**Topic :- Biological classification**

- All monerans
  - Contains DNA and RNA
  - Demonstrate a long circular strand of DNA not found enclosed in a nuclear membrane
  - Are bacteria
  - All of the above
- Which of the following is not the locomotory organ of protozoa?
  - Cilia
  - Flagella
  - Parapodia
  - Pseudopodia
- Slime moulds are dependent on
  - Water plants
  - Plants
  - Dead and decaying organic matter
  - Weeds
- Which of the following is a bacteriophage?
  - Bacteria infecting viruses
  - Vibrio bacteria
  - Virus inhabiting in bacteria
  - Cyanobacteria
- Fungi show sexual reproduction by all of the following processes except
  - Oospores
  - Ascospores
  - Basidiospores
  - Zoospores
- Black rust of wheat is caused by a species of the genus
  - Mucor*
  - Rhizopus*
  - Aspergillus*
  - Puccinia*
- Red tides in warm coastal water develops due to the presence of
  - Dinoflagellates
  - Euglenoid farms
  - Diatoms and desmids
  - Slime moulds
- Black rust of wheat is a fungal disease caused by
  - Melamspora lint*
  - Claviceps purpurea*
  - Albugo candida*
  - Puccinia graminis tritici*
- Bacterium having flagella with all over body is known as
  - Peritrichous
  - Amphitrichous
  - Monotrichous
  - None of these

10. In some fungi, two haploid cells results in diploid cells. In some cases, dikaryon stage occurs in which two nuclei are present within a cell. This phase is known as  
a) Monokaryophase    b) Dikaryophase    c) Plasmogamy    d) Karyogamy
11. Reproduction in most of the bacteria is by a process known as  
a) Binary fission    b) Budding    c) Sexual    d) Sporulation
12. What are episomes?  
a) Hereditary DNA of bacterial cell  
b) Extrachromosomal hereditary material of bacteria associated with nucleoid  
c) Modification of the cell membrane performing respiration  
d) None of the above
13. Identify the correct pair that shows the double stranded RNA among the following  
a) Cauliflower mosaic virus and dahlia mosaic virus  
b) Polio virus and wound tumour virus  
c) Wound tumour virus and reovirus  
d) Tobacco mosaic virus and reovirus
14. All of the following statements concerning the actinomycetous filamentous soil bacterium *Frankia* are correct, except that *Frankia*  
a) Can induce root nodules on many plant species  
b) Can fix nitrogen in the free-living state  
c) Like *Rhizobium*, it usually infects its host plant through root hair deformation and stimulates cell proliferation in the host's cortex  
d) Forms specialized vesicles, in which the nitrogenase is protected from oxygen by a chemical barrier involving triterpene hopanoids
15. Soft-rot disease of sweet potato is caused by  
a) *Rhizopus stolonifer*    b) *Rhizopus sexualis*  
c) *Chlamydomonas nivalis*    d) *Chlamydomonas coccofera*
16. Chromosomes in a bacterial cell can be 1-3 in number and  
a) Can be either circular or linear, but never both within the same cell  
b) Can be circular as well linear within the same cell  
c) Are always circular  
d) Are always linear
17. The cells of the body of a multicellular fungus are organised into rapidly growing individual filament called  
a) Mycelium    b) Rhizoids    c) Hyphae    d) Fibrins

18. The non-living characteristic of viruses is
- a) Ability to multiply only inside the host
  - b) Ability to cause diseases in the host
  - c) Ability to undergo mutation
  - d) Ability to be crystallize
19. Which of the following bacteria are responsible for the production of biogas from the dung of cows and buffaloes?
- a) Thermoacidophiles
  - b) Halophiles
  - c) Methanogen
  - d) Cyanobacteria
20. In *Amoeba*, the contractile vacuole is present
- a) Near the trailing end
  - b) Near the advancing end
  - c) At the middle of the body
  - d) Anywhere inside the body

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