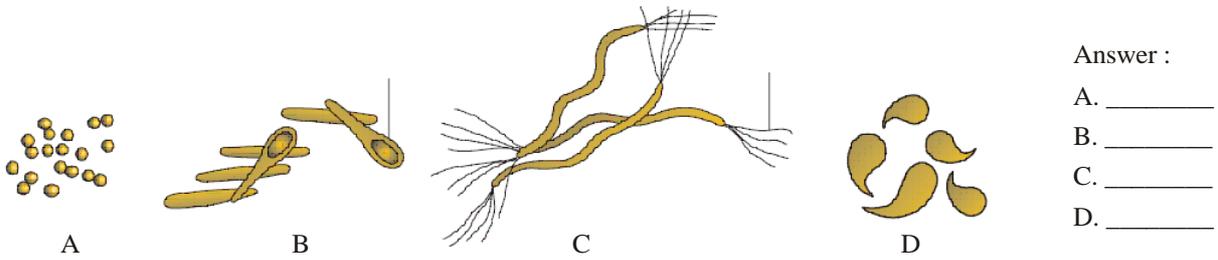


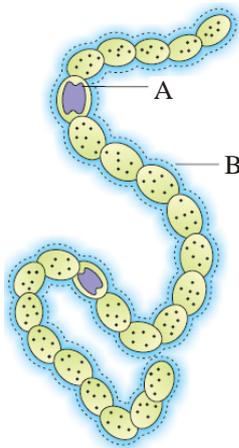
**SECTION - A**

Q.1 Consider the following diagrams A, B, C and D and write down the names of different shapes of bacteria



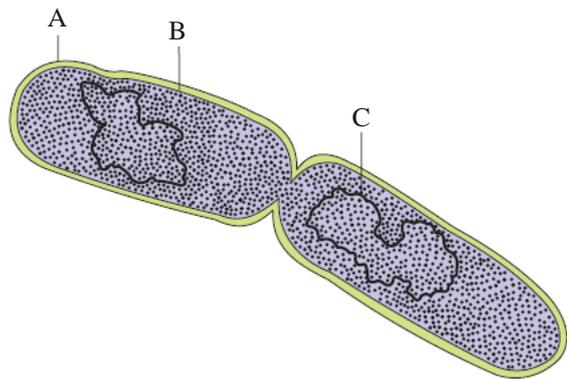
Answer :  
A. \_\_\_\_\_  
B. \_\_\_\_\_  
C. \_\_\_\_\_  
D. \_\_\_\_\_

Q.2 Considering the following diagram as a member of Eubacteria and write down the appropriate names for labelling A and B.



Answer :  
A. \_\_\_\_\_  
B. \_\_\_\_\_

Q.3 Considering the following diagram as a dividing bacteria and write down the appropriate names for labelling A, B and C.

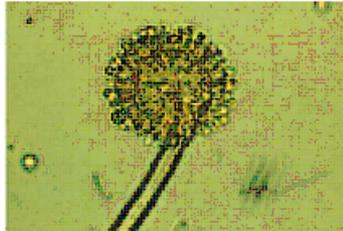


Answer :  
A. \_\_\_\_\_  
B. \_\_\_\_\_  
C. \_\_\_\_\_

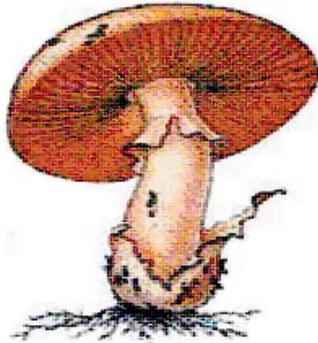
Q.4 Identify the members of kingdom fungi given under as A, B and C then write their appropriate names :



A



B



C

Answer :

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

### SECTION - B

- Q.5 In Linnaeus' time a Two Kingdom system of classification with \_\_\_\_\_ and \_\_\_\_\_ kingdoms was developed that included all plants and animals respectively.
- Q.6 Five kingdom system defined by whittaker were named \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- Q.7 There are thousands of different \_\_\_\_\_ or 'true bacteria'.
- Q.8 Some of these organisms can fix atmospheric nitrogen in specialised cells called \_\_\_\_\_, e.g., *Nostoc* and *Anabaena*.
- Q.9 \_\_\_\_\_ bacteria oxidise various inorganic substances such as nitrates, nitrites and ammonia and use the released energy for their ATP production.
- Q.10 \_\_\_\_\_ are the most abundant in nature. The majority are important decomposers. Many of them have a significant impact on human affairs.

### SECTION - C

- Q.11 Which one is the most abundant microorganism ?
- (1) Bacteria                      (2) Protozoan                      (3) Viruses                      (4) Protists
- Q.12 Bacteria occur –
- (1) In water only                      (2) In soil only                      (3) As parasite                      (4) Everywhere

- Q.13 Based upon the shape bacteria are grouped under how many categories ?  
 (1) 2 (2) 3 (3) 4 (4) 5
- Q.14 Which of the following bacteria are comma-shaped –  
 (1) Coccus (2) Vibrio (3) Bacillus (4) *Clostridium*
- Q.15 Which of the following statement is correct about bacteria ?  
 (1) Bacteria are simple in both structure and behaviour  
 (2) Bacteria are complex in both structure and behaviour  
 (3) Bacteria are complex in structure but simple in behaviour  
 (4) Bacteria are simple in structure but complex in behaviour
- Q.16 Which of the following organisms show the most extensive metabolic diversity ?  
 (1) Algae (2) Fungi (3) Bacteria (4) Bryophytes
- Q.17 Most of the bacteria are –  
 (1) Autotrophs (2) Chemoautotrophs (3) Heterotrophs (4) Parasites
- Q.18 Which of the following are autotrophs ?  
 (1) Photosynthetic bacteria (2) Chemosynthetic bacteria  
 (3) *Archaeobacteria* (4) Both (1) and (2)
- Q.19 Which of the following statements is wrong about *Archaeobacteria* ?  
 (1) They live in some of the most harsh habitats  
 (2) They are recently evolved group  
 (3) Cell wall is peptidoglycan  
 (4) They are unlike most other bacteria
- Q.20 Which of the following areas or conditions would be favoured by thermoacidophiles ?  
 (1) The stomach of many herbivores (2) Hot, alkaline  
 (3) Hot, sulphur springs (4) Deep sea volcanic
- Q.21 Which is not correct about methanogens ?  
 (1) They are archaeobacteria  
 (2) They live in marshy areas  
 (3) Methane is their preferred carbon source  
 (4) They are present in guts of several ruminant animals (cow, buffaloes) and they produce biogas ( $\text{CH}_4$ ) from the dung of these animals
- Q.22 An archean that lives in extremely salty condition is referred to as a –  
 (1) Thermophile (2) Halophiles (3) Thermoacidophile (4) Methanogen
- Q.23 Eubacteria have –  
 (1) Bacteria + Archaeobacteria (2) Cyanobacteria + Archaeobacteria  
 (3) Bacteria + Blue green algae (4) Bacteria + Eukaryote
- Q.24 All Eubacteria have –  
 (1) Cell wall (2) Flagella (3) Heterocyst (4) All the above