

# BIOLOGY

51. Enzyme nitrogenase is a [NCERT Pg. No. 202]  
 (1) Fe-S protein (2) Mo- Fe protein  
 (3) S-P protein (4) Mg-S protein
52. Hydroponics technique is developed for the production of vegetables like – [NCERT Pg. No. 195]  
 (1) Lettuce  
 (2) Tomato  
 (3) Seedless Cucumber  
 (4) All the above
53. Which of the following is not the characteristic feature of enzyme Nitrogenase? [NCERT Pg. No. 203]  
 (1) Active under aerobic conditions  
 (2) Active in presence of oxygen scavenger  
 (3) Sensitive to molecular oxygen  
 (4) Works in presence of leg haemoglobin
54. Nitrogen is fixed in non leguminous plants like *Alnus* by - [NCERT Pg. No. 8]  
 (1) *Rhizobium* (2) *Beijernickia*  
 (3) *Frankia* (4) *Azotobacter*
55. Element involved in normal functioning of cell membrane which is also needed during cell division – [NCERT Pg. No. 197]  
 (1) Calcium (2) Sodium  
 (3) Molybdenum (4) Strontium
56. Element that maintain structure of ribosome is also known for – [NCERT Pg. No. 197]  
 (1) Activation of carboxylases.  
 (2) Getting absorbed by plants as divalent.  
 (3) Being the constituent of ring structure of chlorophyll.  
 (4) Both (2) and (3)
57. Essential elements that are components of energy-related chemical compounds in plants– [NCERT Pg. No. 196]  
 (1) Manganese (2) Magnesium  
 (3) Calcium (4) Sulphur
58. How many of the below given organisms undergo free living nitrogen fixation? [NCERT Pg. No. 202]  

<i>Rhizobium, Frankia, Anabaena, Azotobacter, Beijernickia, Nostoc</i>
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 (1) 5 (2) 4  
 (3) 3 (4) 6
59. Ammonia is first oxidised to nitrite by the bacteria are [NCERT Pg. No. 201]  
 (1) Heterotrophs  
 (2) Green sulphur bacteria  
 (3) Purple sulphur bacteria  
 (4) Chemoautotrophs
60.  $N \equiv N \xrightarrow{A} NH_3$ . Identify A. [NCERT Pg. No. 202]  
 (1) Nitrogenase (2) Nitrogen  
 (3)  $NO_x$  (4) Nitrate