



# **BIOLOGY**

## **BOOKS - JNAN PUBLICATION**

### **MORPHOLOGICAL DIVERSITY AND FUNCTIONS OF LIVING COMPONENTS OF ENVIRONMENT**

**Example**

1. Fill in the blanks:

\_\_\_\_\_ protects the soft root tip from friction with soil particle when it enter the soil.



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2. Fill in the blanks:

Rice, corn, grasses have \_\_\_\_\_ root.



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### 3. Fill in the blanks:

An angle formed between leaf and stem, is called \_\_\_\_\_.



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### 4. Fill in the blanks:

The potato which we eat is actually a \_\_\_\_\_ where the plant stores its food for future use.



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5. Fill in the blanks:

The part which attaches stem and leaf is called\_\_\_\_\_.



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6. Fill in the blanks:

The flat expanded part of leaf is called\_\_\_\_\_.



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7. Fill in the blanks:

Animals differ. In the sensitivity of their  
\_\_\_\_\_ organs.



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8. Fill in the blanks:

\_\_\_\_\_ mosquitoes spread malaria.



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**9. Fill in the blanks:**

Cell membranes are called \_\_\_\_\_ membrane.



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**10. Fill in the blanks:**

Concentrated salt solution is \_\_\_\_\_ with respect to the RBC.



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**11.** Fill in the blanks:

The stem of a sapling develops from the \_\_\_\_\_  
of an embryo.



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**12.** Fill in the blanks:

The roots of a sapling develops from the  
\_\_\_\_\_ of an embryo.



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**13.** Fill in the blanks:

Mango is called \_\_\_\_\_ fruit.



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**14.** Fill in the blanks:

Custard apple is called \_\_\_\_\_ fruit.



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**15.** Fill in the blanks:

Jackfruit is a \_\_\_\_\_ fruit.



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**16.** State whether True or False:

Volatile compounds of human sweat can be recognized by Anopheles mosquito.



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**17.** State whether True or False:

Diffusion is faster at lower temperature.



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**18.** State whether True or False:

Excess use of insecticide reduces beneficial insects like honey bee.



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**19.** State whether True or False:

Seed develop form the ovule after fertilization.



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**20.** State whether True or False:

A flower consists of three parts.



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**21. State whether True or False:**

Application of insecticide is a problem of pollination.



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**22. State whether True or False:**

Deforestation of trees like shimul destroy the shelters of pollinating vectors like bats.



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**23.** State whether True or False:

Bats appear when fruits are cut.



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**24.** State whether True or False:

Anopheles mosquitoes recognise the volatile compounds responsible for the sweet smell of fruits



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**25.** State whether True or False:

The spreading of molecules is much faster in gas than in a solution.



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**26.** State whether True or False:

Tuberculosis bacteria can only reside in lungs of human.



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27. State whether True or False:

No bacteria can spoil honey easily.



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28. Match the column A with column B

Column A	Column B
a) In germination of pumpkin seeds	i) compound fruit
b) In germination of mango seed	ii) is a problem of pollination
c) Heat helps to keep our life	iii) the cotyledons break the seed coat
d) Deforestation is a	iv) is called a leaf base
e) Excess use of insecticide	v) the cotyledons do not come out of the soil
f) Mango is a	vi) simple fruit
g) Jackfruit is the example of	vii) problem of pollination
h) The part which attaches stem and leaf	viii) process going



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**29.** How does the water goes to leaves of a tree?



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**30.** How does the prepared food goes to the lower most parts of plants?



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**31.** Where does plants store the excess food?



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**32.** Which part of plant holds branches, leaves, flowers and fruits?



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**33.** How does a plant protect itself from herbivorous animals?



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**34.** On bright sunlight, absorbed water from soil, evaporates through leaf. Which part of plant can prevent it?



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**35.** How do Bamboo, Banana and palm propagate and keep their existence on Earth inspite of not producing flowers and seeds?



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**36.** Puinshak, laushak can produce food without leaves. Which other part can they use to do the same purpose?



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**37.** Find out the occasions at home when wood is required.



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**38.** Do you know how paper is prepared?



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**39.** How do plants help in your household cooking?



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**40.** Which stem do you use as food?



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**41.** Name the part of plant used to make your bag or your dress.



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**42.** From which plant part we can use to make gum, mosquito repellent, tyre of cycle and varnish?



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**43.** Name some medicines which can be obtained from stem?



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**44.** What provide shelter to birds, squirrel, bat, monkeys at night?



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**45.** Name some insects which live on plant.





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46. Why woods are attacked by insects?



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47. Who emits essential oxygen? Who absorbs your exhaled  $CO_2$ ?



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**48.** Why do you feel cold under a canopy in summer?



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**49.** What absorbs polluted air from vehicles and cleans the nature?



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**50.** How can be said the age of a plant from its stem?



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**51.** Name some helpful insects



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**52.** Name some harmful insects which use leaves as food.



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53. Which leaves are consumed by elephant, deer, cow and goat?



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54. Which leaf ribs are used in our daily household clearing?



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55. Which leaf juice or extract is used as medicine?



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56. Which leaves of plants man uses for his livelihood?



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57. Which leaves are used for fuel?





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**58.** Which leaves are used to make shed?



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**59.** Name some leaves which are used for decoration?



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**60.** Which flower shows sepals or petals similar in shape and size?



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**61.** Parts of calyx corolla are not distinct in which flower?



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**62.** Which flower show all the four whorls?



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**63.** Which flower shows the absence of one or more whorls?



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**64.** Does the colour of petals can change (with change in attitude, season, day time)?



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**65.** Why the petals of a flower are red in somewhere, yellow in somewhere, purple in somewhere or blue in some place else?



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**66.** How does a plant benefit from the scent of petals?



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**67.** Name the flowers which are nocturnal and which bloom in day.



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**68.** Can you name some animals which can consume pollens?



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**69.** What are the problems do encounter if we inhale pollen?



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**70.** How can man use flower colours?



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**71.** What is the relation of sunlight with blooming?



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**72.** Which part of flower forms fruit?



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**73.** What are the function of stem?



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**74.** Leaves are green but why are the petals coloured?



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**75.** Diffusion and Imbibition.



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**76.** State whether True or False:

Seed develop form the ovule after fertilization.



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77. Explain the terms osmosis and osmotic pressure.



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78. What is Pheromone?



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**79.** Write down the functions of different parts of seed.



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**80.** Describe the different parts of a root.



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**81.** Define - Node, Internode, Axil



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**82.** What are the different types of leaves?



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**83.** How many parts are there in a flower?



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**84.** How many types of seeds are there depending upon the number of cotyledons

present in a seed?



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**85.** List some facts that hamper pollination.



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**86.** List the properties of diffusion.



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**87.** Why do snakes frequently protrude their tongues?



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**88.** What is Germination? Define the two types of Germination.



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**89.** What is ORS?



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**90.** When sunstroke occurs?



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**91.** How do salt water fishes maintain the water and salt level in their body?



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