



## **BIOLOGY**

# **BOOKS - VGS PUBLICATION-BRILLIANT**

# TRANSPORTATION THROUGH PLASMA MEMBRANE



**1.** The structure which controls the entry and exit of the materials through the cell is

- A. Cell wall
- B. Cell membrane
- C. Both
- D. None of them

#### **Answer:**

Watch Video Solution

2. Fill in the blanks: The smell of flowers

reaches us through the process of \_\_\_\_



**3.** Fill in the blanks: The MIC gas of Bhopal tragedy spread throughout the city through the process of \_\_\_\_

Watch Video Solution

4. Fill in the blanks: Water enters into the

potato osmometer due to a process called \_\_\_\_

5. What do you mean by permeability of membrane ? Explain with suitable example.
Watch Video Solution

**6.** If the dried vegetables are kept in water, they become fresh. What is the reason ?

7. Name the process by which we can get fresh

water from sea water.

Watch Video Solution

8. What will happen to a marine fish if kept in fresh water aquarium ? Support your answer with reasons.

9. Why do the doctors administer saline only,

but not the distilled water ?

Watch Video Solution

10. What will happen if cells do not have ability

of permeability ?

**11.** You have purchased a coconut in the market By shaking it you found there is less water in the coconut Can you fill the coconut with water without making a hole in it?

**Watch Video Solution** 

#### **12.** How is diffusion useful in everyday life ?



13. Give examples of three daily life activities

in. which osmosis is involved .

Watch Video Solution

14. Discuss with your friends and write the list

of incidences where diffusion occurs.

15. How do you observe the diffusion of coffee

powder in water ? Write your findings.



#### 16. Observe the diffusion of potassium

permanganate in water. Write your findings.



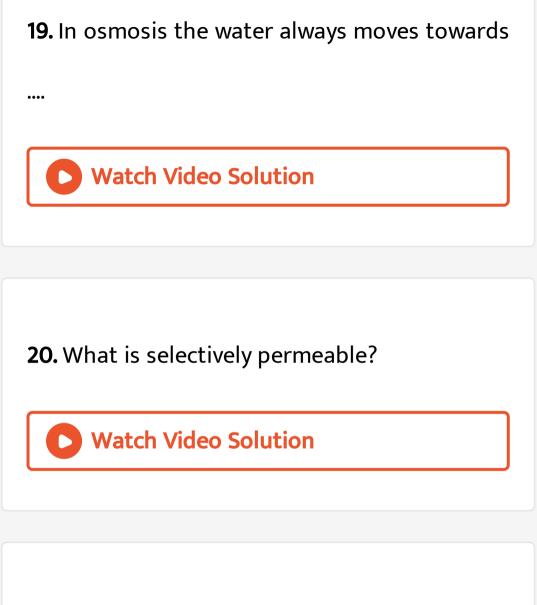
17. What are the substances required by the

cell to perform various functions?

Watch Video Solution

18. In a sugar or salt solution what is the name

given to the sugar or salt? What is the water?



**21.** What is endocytosis?

#### **22.** What is semipermeable?

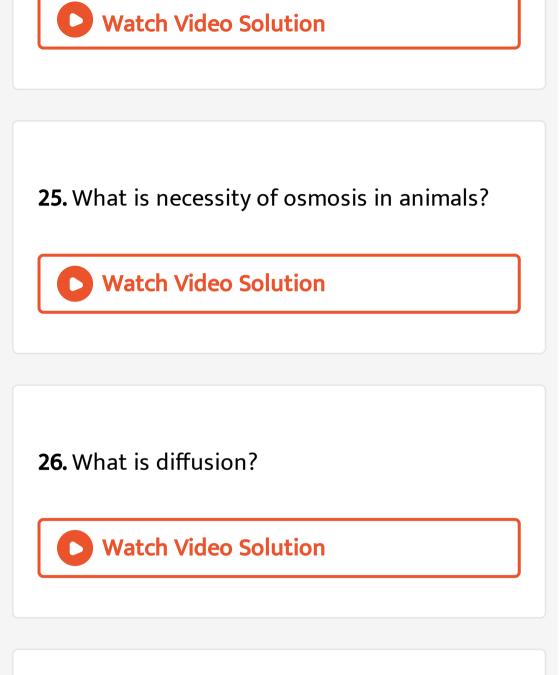
Watch Video Solution

#### 23. How can we dissolve the shell of an egg

which is made up of calcium carbonate?

Watch Video Solution

24. What is the necessity of osmosis in plants?



27. State Graham's law of diffusion.



### 28. On which principles does dialysis machine

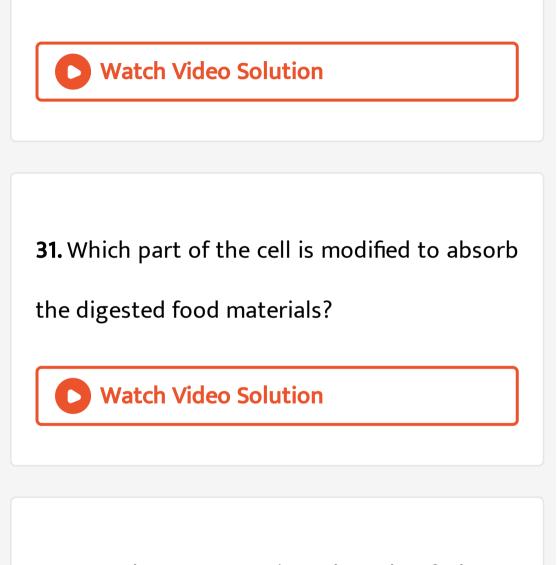
works ?

Watch Video Solution

29. Why does the animal cell kept in hypotonic

solution burst ? Why not plant cell?

**30.** How is cool drink prepared ?



**32.** How do you appreciate the role of plasma membrane in protecting the body form

microorganisms?

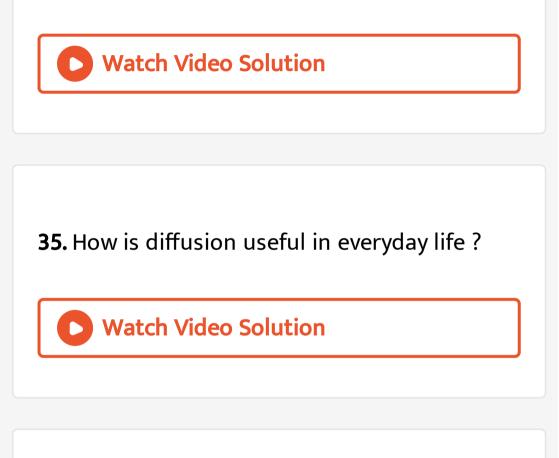
#### Watch Video Solution

**33.** You have purchased a coconut in the market By shaking it you found there is less water in the coconut Can you fill the coconut with water without making a hole in it?



34. What happens if cell membranes allow all

the substances to pass through it?



36. What is reverse osmosis?

#### **37.** How is osmosis useful to human beings?

Watch Video Solution

38. How can you smell different substances

when blind folded?



39. What would have happened if william kolft

did not invent dialysis machine?

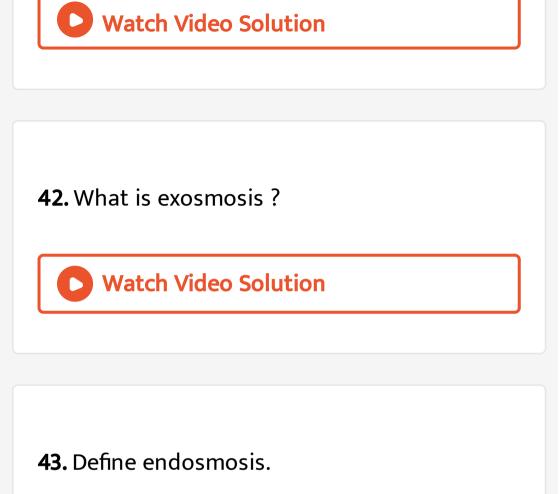


#### 40. Why do we feel thirstier even after

drinking cool drink?



**41.** What is the better food during a journey?





44. What happens if red blood cells are placed

in distilled water?

Watch Video Solution

45. What is a saturated solution ?

Watch Video Solution

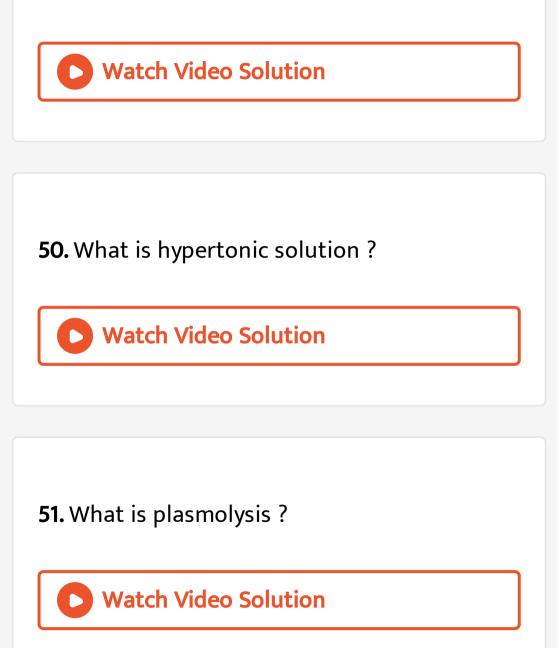
**46.** What is the principle involved in dialysis?

**47.** Name the principle involved in air freshners, mosquito repellents that are used in our daily life.

**Watch Video Solution** 

**48.** What is a hypotonic solution ?

49. What is isotonic solution ?



52. How do substances like  $CO_2$  and water

move in and out of the cell?

Watch Video Solution

**53.** What will happen to the size of the cell if it is placed in such solutions which vary in their concentrations When placed in Hypotonic solution?



54. What will happen to the size of the cell if it

is placed in hypertonic solution ?



55. Why does the skin of your finger shrink

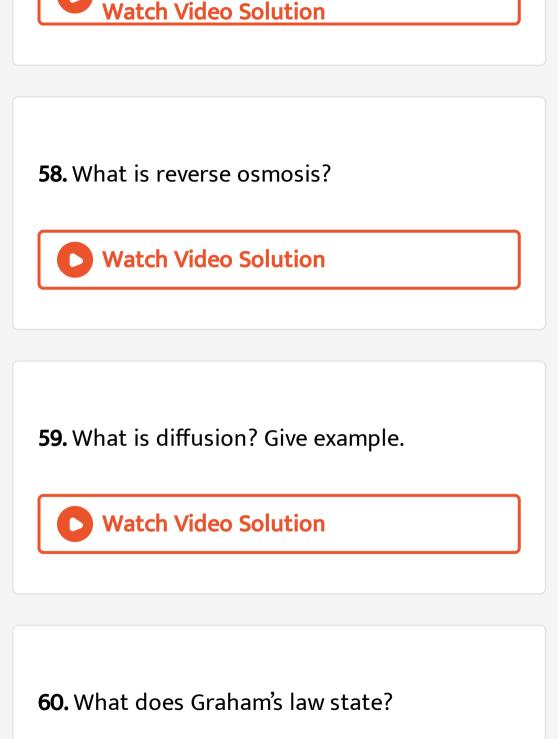
when you wash your clothes for a long time ?

**56.** A person takes concentrated solution of salt. After sometime, he starts vomiting. What is the phenomenon responsible for such solution ?

**Watch Video Solution** 

57. When you are cooking vegetables generally you add salt to vegetables during cooking.After adding salt, vegetables release wafer.What mechanism is responsible for this ?









61. What is dialysis ? Who constructed dialysis

machine ? On which principle does the

machine work ?

Watch Video Solution

#### 62. What will be the effect of cool drink on our

body?

63. Why did we feel thirstier, after eating 50

gms of potato chips in journey?

Watch Video Solution

64. Why does carbon dioxide cannot enter the

cell?



65. Water enters the root cells from the soil,

why? Name the process involved in this.



**66.** Why do dry apricots placed in salt solution do not swell While they do so when kept in water?

**67.** What happens to the dry raisins when we put them in plain water for sometime ? What happens if these raisins are now placed in, concentrated solution?

**Watch Video Solution** 

68. What happens if plasma membrane

ruptures or breaks?

69. What are the differences between diffusion

and osmosis ?



70. What is osmosis ? Explain with example.

Watch Video Solution

**71.** What is cell membrane? What is its function?





72. Write about the importance of osmosis to

living organisms.

**Watch Video Solution** 

73. Plasma membrane is

A. Permeable

- B. Semipermeable
- C. Selectively permeable

D. All the above

#### Answer:

Watch Video Solution

#### 74. Plasma membrane is present in

- A. Only in plants
- B. Only in animals
- C. Both plants and animals

D. None





#### 75. Diffusion occurs in this medium.

A. Solids

**B.** Liquids

C. Gases

D. All

#### **Answer:**



#### 76. Osmosis occurs in this medium.

A. Solids

B. Liquids

C. Gases

D. None

**Answer:** 

77. Semipermeable membrane is necessary for

A. Osmosis

**B. Diffusion** 

C. Both osmosis & diffusion

D. None

**Answer:** 

78. Identify the solvent.

A. Sugar

B. Salt

C. Water

D. Cytoplasm

Answer:

79. Dissolved substance in a solution

A. Solvent

B. Solute

C. Mixture

D. Water

Answer:

80. Function of plasma membrane is

A. Providing definite shape to semifluid

contents in the cell

B. Osmosis

C. Provides flow of information among the

cells

D. All

**Answer:** 

81. Scientist who worked on diffusion of gases?

A. Thomas Graham

B. Freddie Mercury

C. David Bowie

D. Bichat

#### Answer:

82. The smell of perfume spread is because of -

A. Osmosis

**B. Diffusion** 

C. Air

D. Endocytosis

## Answer:



83. The opening and closing of stomata is due

to -

A. Sunlight

B. Osmosis

C. Plasmolysis

D. Endocytosis

## **Answer:**

**84.** Name the process by which  $CO_2, O_2$  move

across the cell membrane .

A. Diffusion

B. Osmosis

C. Plasmolysjs

D. None

Answer:

85. Plasmolysis occurs due to -

A. Absorption

B. Endosmosis

C. Osmosis

D. Exosmosis

Answer:

86. A cell placed in hypotonic solution is will -

A. Shrinks

- B. Show plasmolysis
- C. Swellup
- D. No change in the shape or size

Answer:

87. Bulk transport occurs through -

A. Endocytosis

B. Exocytosis

C. Endosmosis

D. Both A & B

**Answer:** 

88. Amoeba acquires its food through a

process termed as .....

A. Excytosis

B. Endocytosis

C. Plasmolysis

D. Exocytosis and endocytosis both

## Answer:

A. Paper

.....

B. Cloth

C. Egg

D. Plastic

#### Answer:

90. Water enters into roots through

A. Exosmosis

**B. Endocytosis** 

C. Osmosis

D. Reverse osmosis

Answer:

91. The principle involved in dialysis ......

A. Reverse osmpsis

B. Endocytosis

C. Osmosis

D. Diffusion

Answer:

92. Osmosis does not takes place in

A. Animal cells

B. Plant cells

C. Bacterial cells

D. Dead cells

Answer:

**93.** The raisin wrinkles, if kept in salt water because of -

A. Diffusion

B. Exosmosis

C. Endosmosis

D. Osmosis

## Answer:

94. The egg placed in salt water ....

A. Shrinks

B. Swells

C. No change

D. Breaks

**Answer:** 



95. The principle involved in de-salination

# A. Diffusion

- B. Reyerse Osmosis
- C. Exosmosis
- D. None

#### **Answer:**



96. If the dried vegetables are kept in water

they become

A. Shrink

B. Swell

C. Fresh

D. No change

### **Answer:**

Watch Video Solution

**97.** If a marine fish will kept in fresh water aquarium then it dies because of

# A. Osmosis

B. Exosmosis

C. Diffusion

D. Reverse osmosis

#### **Answer:**

Watch Video Solution

98. What happens if fresh grapes put in salt

water ?

A. size increases

B. size decreases

C. no change

D. burst

**Answer:** 

Watch Video Solution

**99.** Coffee powder and  $KMNO_4$  experiments

are done to prove

# A. Osmosis

- B. Reverse, osmosis
- C. Exosmosis
- D. Diffusion

#### **Answer:**



100. Shrinking of egg placed in the salt water

is due to

A. osmosis

B. exosmosic

C. diffusion

D. endosmosis

### **Answer:**

Watch Video Solution

101. Swelling of egg placed in the tap water is

due to

A. osmosis

B. exosmosic

C. diffusion

D. endosmosis

#### **Answer:**

Watch Video Solution

102. Bhopal gas tragedy happened due to

A. Osmosis

- B. Reverse osmosis
- C. Diffusion
- D. Exosmosis

## **Answer:**