



# **BIOLOGY**

# **BOOKS - CHETANA PUBLICATION**

# **INTRODUCTION TO BIOTECHNOLOGY**



1. Which component brings about important

processes in the living organisms?

2. Which is the smallest structural and functional unit of the body of living organisms?

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3. Which type of muscle is the diaphragm of

the respiratory system?

4. Is there any difference between plant growth and animal growth?
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5. Why does the growth of a plant occur only

at specific parts of the plant body?

6. Find odd man out

Epithelium, muscle fibre, nerve fibre, epidermis.



#### 7. Find the odd man out

Cell body, muscle fiber, axon, dendrites.



8. Find the odd man out

Tracheids, vessels, companion cells, xylem

fibres.



### 9. Find the odd man out

Bone, cartilage, tendon, cardiac muscle.



**10.** Find the odd man out

Sieve tubes, tracheids, phloem parenchyma, phloem fibres.



#### 11. Find the odd man out

Holstein, Brown swiss, Bombyx mori, jersey.



12. Find the odd man out

Xylem, phloem, permanent tissue,

meristematic tissue.



#### 13. Match the columns :

Column 'A'	ımn 'A' Column 'B'	
(1) Squamous epithelium	(a) Secretion of digestive juice	
(2) Cuboidal epithelium	(b) Selective transport of substances	
(3) Columnar epithelium	(c) Protection of organs	
(4) Stratified epithelium	(d) Secretion of saliva	

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#### 14. Match the columns :

Column 'A'	Column 'B'	
(1) Brahma	(a) Local variety of cow	
(2) Jersey	(b) Layer chicken	
(3) Devni	(c) Exotic variety of cow	
(4) Lehman	(d) Broiler chicken	

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#### 15. Match the columns :

Column 'A'	Column 'B'
(1) Potato	(a) Vistive Gold
(2) Maize	(b) Amflora
(3) Soybean	(c) Vaishali
(4) Tomato	(d) MON 863

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**16.** Name the following:

Tissue lining inner surface of the mouth.

Tissue joining muscles and bones.



### 18. Name the following

Tissue responsible for increasing the height of

plants.

Tissue responsible for increaseing the girth of

stem.



### **20.** Name the following:

Tissue responsible for growth of branches,

formation of leaves and flowers.

Tissue that helps in insulation, supply of energy, storage of fats.

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**22.** Name the following:

Tissue present in outer layer of skin.

Tissue present in nose, ear, larynx, trachea.



**24.** Name the following:

Dead cells in xylem.



Living cells in xylem.

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**26.** Name the following:

Living cells in phloem.



Dead cells in phloem.

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**28.** Name the following:

GM crops.

Local Indian varieties of cow.

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#### **30.** Name the following:

Exotic varieties of cow.



Layers.

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**32.** Name the following:

Broilers.

Chickens reared for both eggs and meat.



34. Rearing of sheep is a livestock, Justify this

statement.



**35.** Define the following:

Blood is a complex tissue.

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#### **36.** Define the following:

Tissue



**37.** Define the following:

Differentiation

Watch Video Solution

**38.** Define the following:

Biotechnology

**39.** Define the following:

**Tissue culture** 

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40. Write short notes

Meristematic tissue.



**41.** Write short notes

xylem

Watch Video Solution

42. Write short notes

**Striated Muscles** 



**43.** Write short notes:

Agro-complementary business

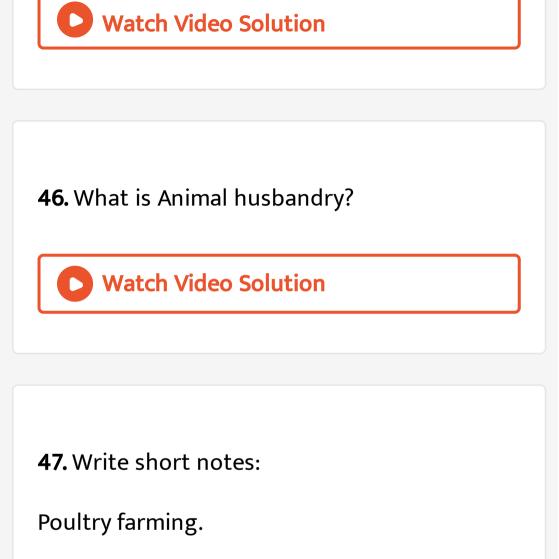
Watch Video Solution

44. Write short notes:

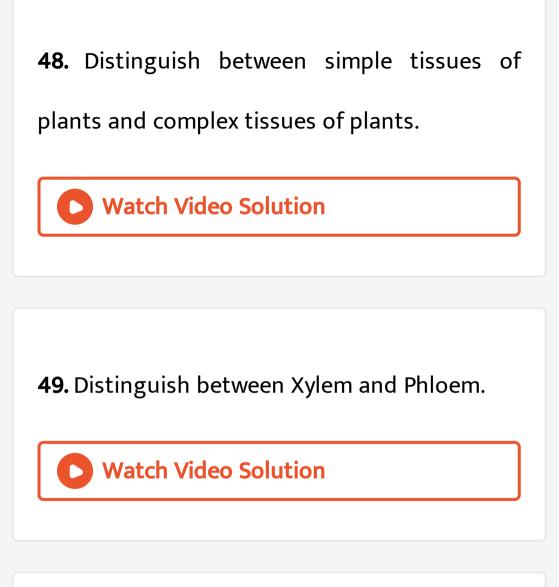
Genetic engineering



**45.** What is sericulture?

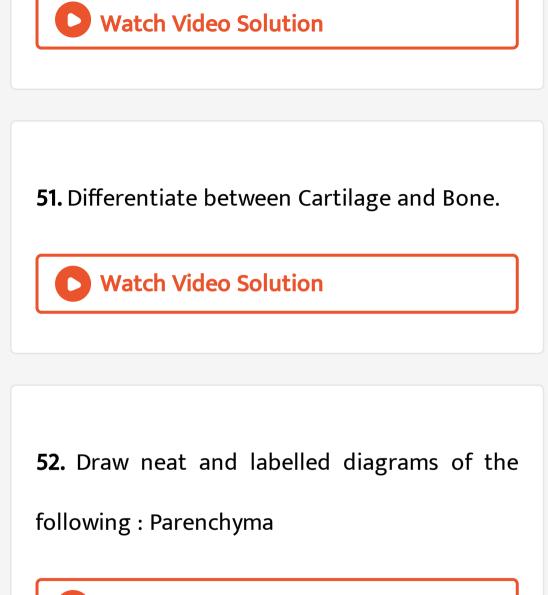






50. Distinguish between:

Striated muscles and Non-striated muscles.





53. Draw neat and labelled diagrams of the

following : Collenchyma

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54. Draw neat and labelled diagram:

Nerve cell

55. Draw neat and labelled diagrams of the

following : Sclerenchyma

Watch Video Solution

**56.** Explain the meaning of biotechnology and its impact on agricultural management with suitable examples.

57. Which two main techniques are used in

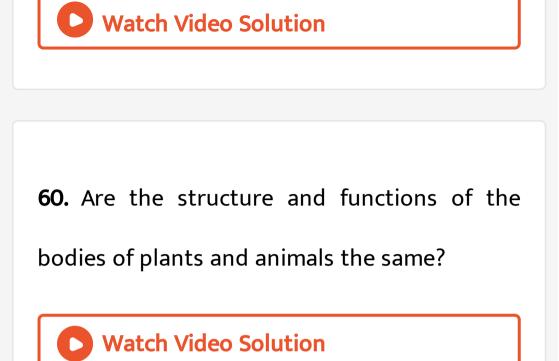
biotechnology? Why?

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**58.** Explain the different types of muscular tissues.



59. Write a note on complex permanent tissue.



**61.** Suppose you want to grow a garden like the one shown in the picture, around your home or school. What would you do to achieve that? By which methods will you cultivate the

#### seedlings



Fig. 17.5: Tissue culture: Plantlets of banana and farming with their help



### 62. You must have seen flowers of same variety

but of 2 or 3 different colours borne by same

plant. How is this possible?



63. What keeps the various organs and organ

systems separate from each other? Why?

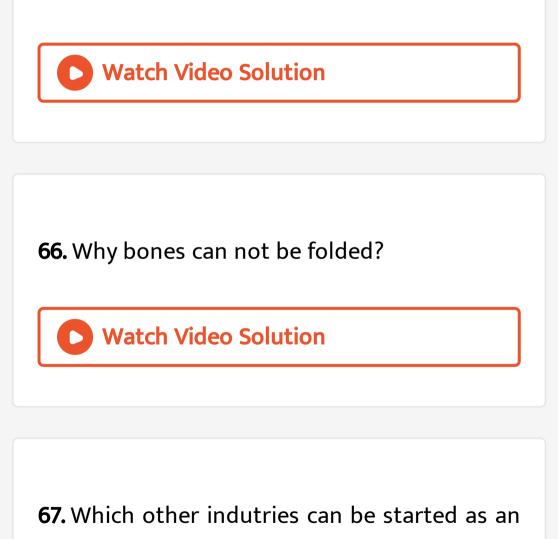


### 64. Why are epithelial tissues said to be simple

tissues?

65. Why do slim persons feel more cold in

winter than those who are obese?



extension of the plant nursery business?



### 68. To which places do people choose to go on

vacation in order to relax when they are tired

of crowds and stressful life?

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69. What is the inter-relationship between the

two questions (7 and 8) above?



Fig. 17.5: Tissue culture: Plantlets of banana and farming with their help

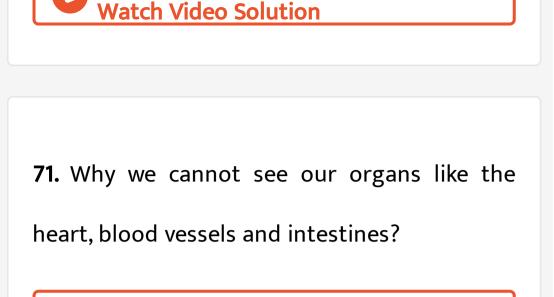
- \*(7) Which other industries can be started as an extension of the plant nursery business?
- \*(8) To which places do people choose to go on vacation in order to relax when they are tired of crowds and stressful life? (Use your brain



70. Why are the cocoons transferred to boiling

water before the pupa develops into an adult?





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72. What is meant by white revolution? Who

was its pioneer? What benefits did it bring?

73. Collect information about GM varieties of crops in your area and make a note of them.Also find out if there are adverse effects of GM crops on human beings and environment.



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74. Close your eyes and try to identify different objects by feeling them with your hand. Why is it possible for you to identify things like a note-book, text-book, bench, compass-box, etc. only by touching them?



75. As shown in the figure, place an onion on each gas jar in such a way that its base (roots) will remain dipped in water. Measure and record the length of the roots of both onions on the first, second and third day. On the fourth day, cut off 1 cm of the roots of the onion in flask B Measure the length of the roots of both onions for the next five days and record table.

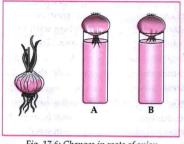


Fig. 17.6: Changes in roots of onion

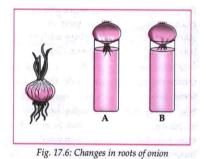
Length (cm)	Day 1	Day 2	Day 3	Day 4	Day 5
Flask A					
Flask B				44	

#### Which onion has longer roots? Why?

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**76.** As shown in the figure, place an onion on each gas jar in such a way that its base (roots) will remain dipped in water. Measure and record the length of the roots of both onions on the first, second and third day. On the fourth day, cut off 1 cm of the roots of the onion in flask B Measure the length of the roots of both onions for the next five days and

record table.



Length (cm)	Day 1	Day 2	Day 3	Day 4	Day 5
Flask A					1.1
Flask B	4			300 L	

Why did the roots of the onion in jar B stop

growing?



**77.** Take a fresh and fleshy leaf of Rhoeo, lily or any other plant. Pull and press it, tearing it obliquely in such a way that its transparaent epidermis will be visible at the cut margins. Take the transparent epidermis with the forceps and keep it in dilute safranin solution for 1 minute. Spread it on a slide, cover it with a cover-slip and observe it under a compound microsope.



**78.** Establish your own plant nursery near your school or home. Prepare the seedlings of flowering plants, fruit plants, and ornamental plants being grown in your area. Can you start a business in the future with the help of this activity? Think it over.

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**79.** Observe the skin of the back of your hand with the help of a magnifying lens. Do you see

the closely attached squarish and pentagonal

shapes?



80. Observe a permanent slide of blood smear

under a compound microscope. What did you

see?



**81.** Visit a modern cowshed nearby and record the following points- The number of cattle, their variety, total milk production, cleanliness in cattle-shed, arrangements for health care of cattle.

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82. Collect more information about animal

husbandry.



**83.** Find out from the internet the average daily milk yield from local and exotic varieties of cow.



84. Discuss agritourism in class and write a project on an agritourism centre nearby.Present it in the class in groups.

**85.** Define the term tissue and explain the concept of tissue culture.

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86. Write the location, structure and function

of following epithelial tissues:

Squamous epithelium

87. Write the location, structure and function

of following epithelial tissues:

Stratified epithelium



#### 88. Write the location, structure and function

of following epithelial tissues:

Glandular epithelium

89. Write the location, structure and function

of following epithelial tissues:

Columnar epithelium

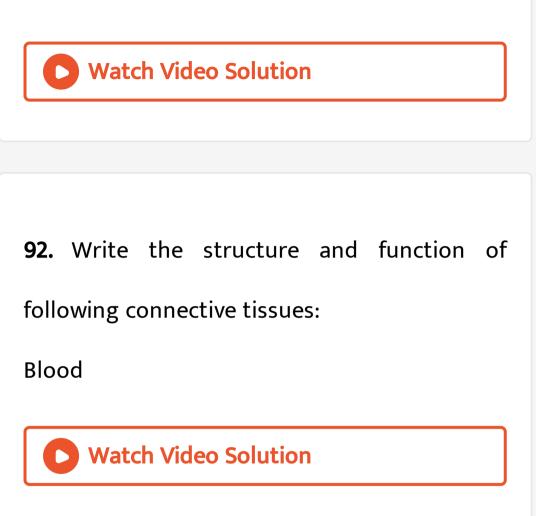
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90. Write the location, structure and function

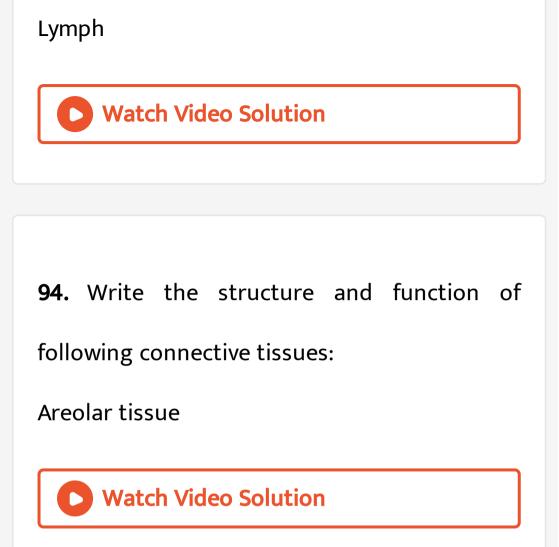
of following epithelial tissues:

Ciliated epithelium

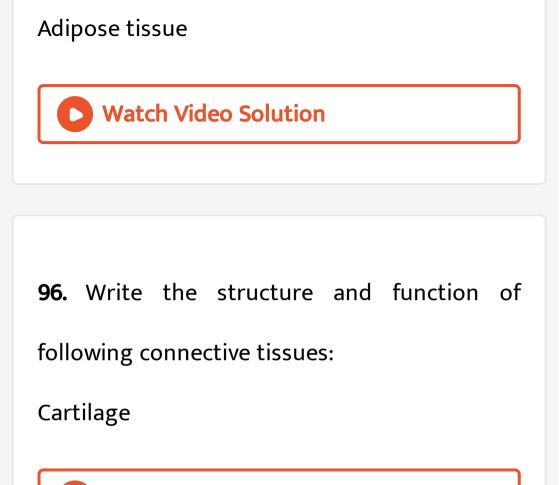
**91.** Write a note on Cuboidal Epithelium.



**93.** Write the structure and function of following connective tissues:

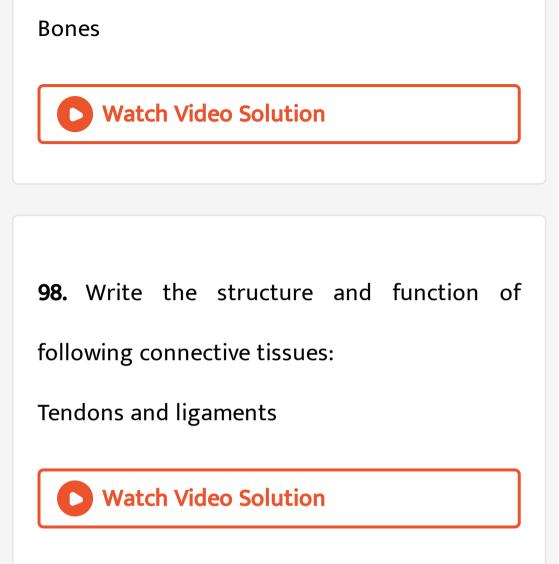


**95.** Write the structure and function of following connective tissues:

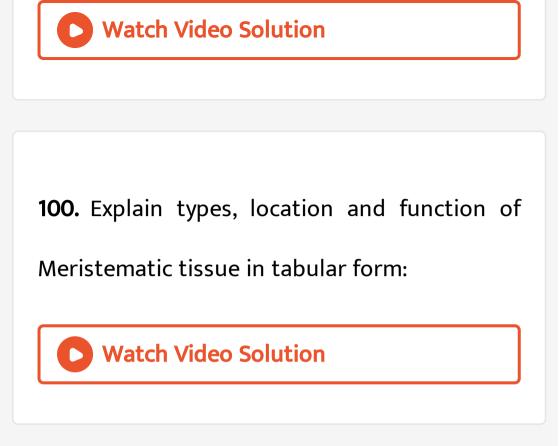


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**97.** Write the structure and function of following connective tissues:



**99.** Describe the structure of nervous tissue with the help of a neat labelled diagram.



**101.** Explain the types of simple permanent

tissues in plants.

102. Write the application of biotechnology in

floriculture



## 103. Which component brings about

important processes in the living organisms?

**104.** Which is the smallest structural and functional unit of the body of living organisms?



# 105. Which type of muscle is the diaphragm of

the respiratory system?

106. What is the main difference the growth of

animals and plants ?

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107. Why does the growth of a plant occur only

at specific parts of the plant body?

**108.** Find odd man out

Epithelium, muscle fibre, nerve fibre, epidermis.



#### 109. Find the odd man out

Cell body, muscle fiber, axon, dendrites.



110. Find the odd man out

Tracheids, vessels, companion cells, xylem

fibres.



### 111. Find the odd man out

Bone, cartilage, tendon, cardiac muscle.



**112.** Find the odd man out

Sieve tubes, tracheids, phloem parenchyma, phloem fibres.



#### 113. Find the odd man out

Holstein, Brown swiss, Bombyx mori, jersey.



114. Find the odd man out

Xylem, phloem, permanent tissue,

meristematic tissue.



#### 115. Match the columns :

Column 'A'	Column 'B'		
(1) Brahma	(a) Local variety of cow		
(2) Jersey	(b) Layer chicken		
(3) Devni	(c) Exotic variety of cow		
(4) Lehman	(d) Broiler chicken		



Tissue lining inner surface of the mouth.

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### 117. Name the following

Tissue joining muscles and bones.

Tissue responsible for increaseing the height

of plants.



### 119. Name the following

Tissue responsible for increaseing the girth of

stem.

Tissue responsible for growth of branches,

formation of leaves and flowers.



**121.** Name the following:

Tissue that helps in insulation, supply of

energy, storage of fats.

Tissue present in outer layer of skin.



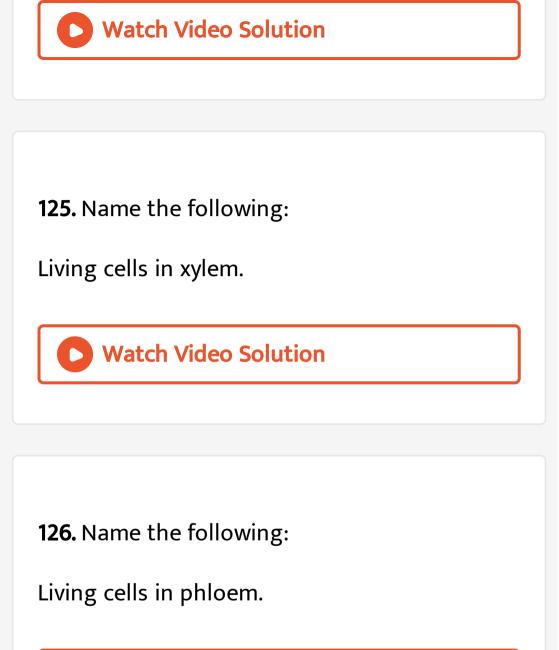
**123.** Name the following:

Tissue present in nose, ear, larynx, trachea.

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**124.** Name the following:

Dead cells in xylem.



Dead cells in phloem.



128. Name the following:

GM crops.

Local Indian varieties of cow.

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**130.** Name the following:

Exotic varieties of cow.



Layers.

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**132.** Name the following:

Broilers.



Chickens reared for both eggs and meat.

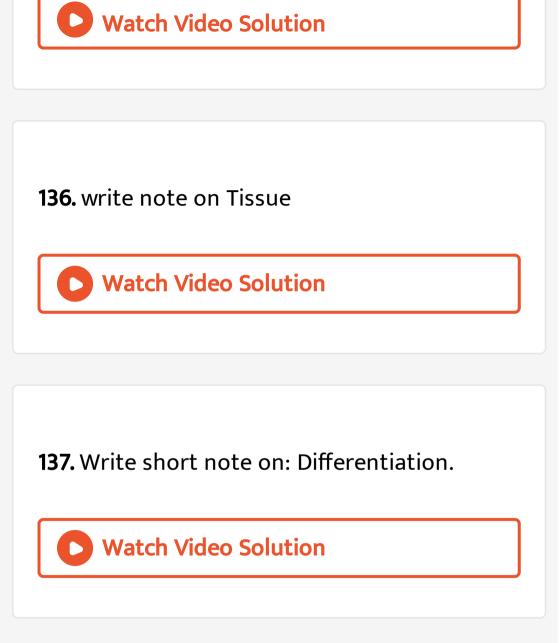


134. Rearing of sheep is a livestock, Justify this

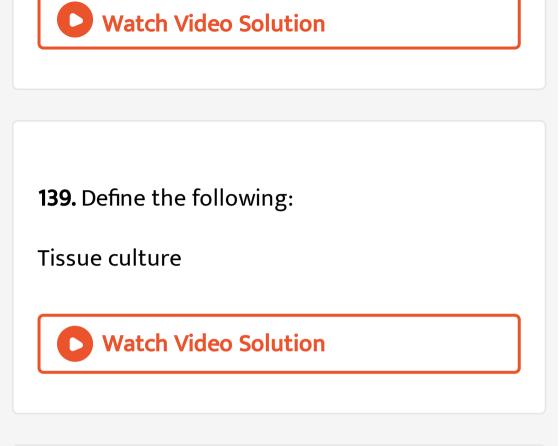
statement.



**135.** Blood is a complex tissue.



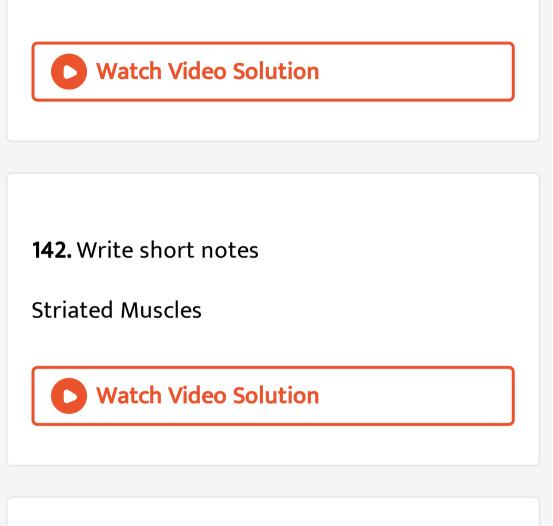
**138.** Define Biotechnology.



140. Write short notes

Meristematic tissue.

## 141. Write a note on xylem



143. Write short notes:

Agro-complementary business





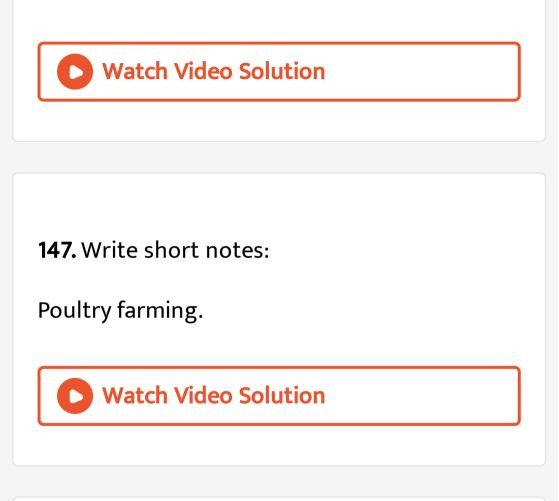
**144.** Write short notes:

Genetic engineering

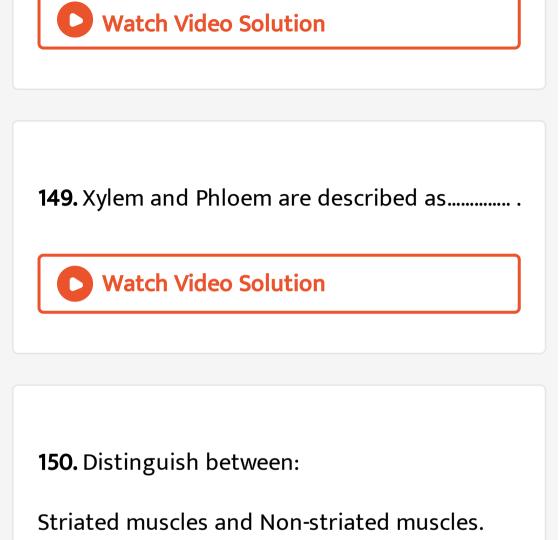
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145. What is sericulture?

146. What is Animal husbandry?



**148.** Distinguish between simple tissues of plants and complex tissues of plants.



151. Differentiate between Cartilage and Bone.



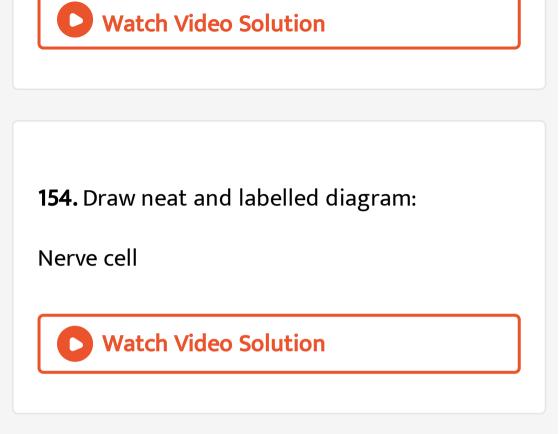
152. Draw neat and labelled diagrams of the

following : Parenchyma

> Watch Video Solution

153. Draw neat and labelled diagrams of the

following : Collenchyma



## 155. Draw neat and labelled diagrams of the

following : Sclerenchyma

**156.** Explain the meaning of biotechnology and its impact on agricultural management with suitable examples.



157. Which two main techniques are used in

biotechnology? Why?

**158.** Explain the different types of muscular tissues.

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**159.** Explain the types of simple permanent tissues in plants.



160. Are the structure and functions of the

bodies of plants and animals the same?

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161. What is the main difference between the

growth of animals and plants?



Fig. 17.5: Tissue culture: Plantlets of banana and farming with their help



**162.** You must have seen flowers of same variety but of 2 or 3 different colours borne by same plant. How is this possible?

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## 163. What keeps the various organs and organ

systems separate from each other? Why?

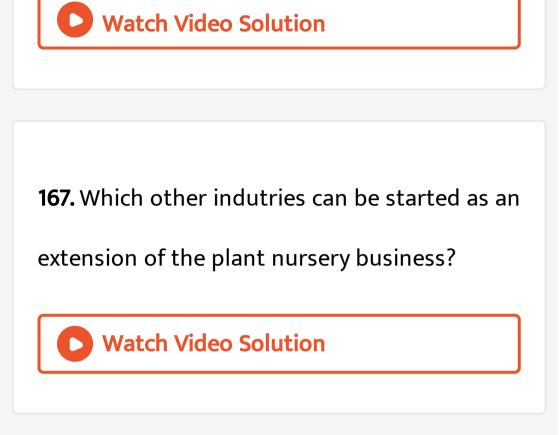
164. Why are epithelial tissues said to be simple tissues?
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165. Why do slim persons feel more cold in

winter than those who are obese?



**166.** Why bones can not be folded?



**168.** To which places do people choose to go on vacation in order to relax when they are tired of crowds and stressful life?

**169.** Why are the cocoons transferred to boiling water before the pupa develops into an adult?



#### 170. Why we cannot see our organs like the

heart, blood vessels and intestines?

171. What is meant by white revolution? Who

was its pioneer? What benefits did it bring?



172. Collect information about GM varieties of crops in your area and make a note of them.Also find out if there are adverse effects of GM crops on human beings and environment.

**173.** Close your eyes and try to identify different objects by feeling them with your hand. Why is it possible for you to identify things like a note-book, text-book, bench, compass-box, etc. only by touching them?



**174.** As shown in the figure, place an onion on each gas jar in such a way that its base (roots) will remain dipped in water. Measure and record the length of the roots of both onions on the first, second and third day. On the fourth day, cut off 1 cm of the roots of the onion in flask B Measure the length of the roots of both onions for the next five days and record table.

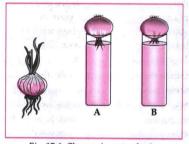


Fig. 17.6: Changes in roots of onion

Length (cm)	Day 1	Day 2	Day 3	Day 4	Day 5
Flask A					
Flask B				200 C	

#### Which onion has longer roots? Why?

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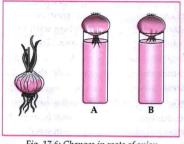


Fig. 17.6: Changes in roots of onion

Length (cm)	Day 1	Day 2	Day 3	Day 4	Day 5
Flask A					
Flask B				41	

#### Which onion has longer roots? Why?

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**176.** Take a fresh and fleshy leaf of Rhoeo, lily or any other plant. Pull and press it, tearing it obliquely in such a way that its transparaent epidermis will be visible at the cut margins. Take the transparent epidermis with the forceps and keep it in dilute safranin solution for 1 minute. Spread it on a slide, cover it with a cover-slip and observe it under a compound microsope.

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**177.** Establish your own plant nursery near your school or home. Prepare the seedlings of flowering plants, fruit plants, and ornamental plants being grown in your area. Can you start a business in the future with the help of this

activity? Think it over.



**178.** Observe the skin of the back of your hand with the help of a magnifying lens. Do you see the closely attached squarish and pentagonal shapes?

179. Observe a permanent slide of blood smear

under a compound microscope. What did you



**180.** Visit a modern cowshed nearby and record the following points- The number of cattle, their variety, total milk production, cleanliness in cattle-shed, arrangements for health care of cattle.





181. Collect more information about animal

husbandry.



182. Find out from the internet the average

daily milk yield from local and exotic varieties

fo cow.

183. Discuss agritourism in class and write a project on an agritourism centre nearby.
Present it in the class in groups.



**184.** Define the term tissue and explain the concept of tissue culture.

185. Write the location, structure and function

of following epithelial tissues:

Squamous epithelium



## 186. Write the location, structure and function

of following epithelial tissues:

Stratified epithelium

187. Write the location, structure and function

of following epithelial tissues:

Glandular epithelium

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188. Write the location, structure and function

of following epithelial tissues:

Columnar epithelium

189. Write the location, structure and function

of following epithelial tissues:

Ciliated epithelium

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190. Write the location, structure and function

of following epithelial tissues:

Cuboidal epithelium

**191.** Write the structure and function of following connective tissues:



# **192.** Write the structure and function of following connective tissues:

Lymph

193. Write the structure and function of following connective tissues:Areolar tissue

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**194.** Write the structure and function of following connective tissues:

Adipose tissue

**195.** Write the structure and function of following connective tissues: Cartilage Watch Video Solution 196. Write the structure and function of

following connective tissues:

Bones

197. Write the structure and function of

following connective tissues:

Tendons and ligaments



## 198. Describe the structure of nervous tissue

with the help of a neat labelled diagram.



**199.** Explain types, location and function of

Meristematic tissue in tabular form:

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200. Explain the types of simple permanent

tissues in plants.



# 201. Write the application of biotechnology in

nurseries





1. Protective coverings in the animal body are

called ..... tissues.

meristematic

muscular

#### epithelial

#### bone

A. meristematic

B. muscular

C. epithelial

D. bone

Answer:

2. Epithelial tissue is present in .....

skin

inner surface of blood vessels

walls of the alveoli

all of these

A. skin

B. inner surface of blood vessels

C. walls of the alveoli

D. all of thses

Answer:



3. ..... helps in secretion of digestive juice,

absorption of nutrients.

Glandular epithelium

Columnar epithelium

Cuboidal epithelium

Ciliated epithelium

A. Glandular epithelium

B. Columnar epithelium

C. Cuboidal epithelium

## D. Ciliated epithelium

#### Answer:

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## 4. ..... supports internal organs.

Areolar tissue

Adipose tissue

Lymph

Tendon

A. Areolar tissue

B. Adipose tissue

C. Lymph

D. Tendon

#### Answer:

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5. ..... tissue helps in insulation, supply of

energy, storage of fats.

Areolar tissue

Adipose tissue

Muscular tissue

**Epithelial tissue** 

A. Areolar tissue

B. Adipose tissue

C. Muscular tissue

D. Epithelial tissue

Answer:

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6. ..... connect muscles to bones.

Ligaments

Tendons

Cartilages

Nerves

A. Ligaments

B. Tendons

C. Cartilages

D. Nerves

Answer:



**7.** How are the bones in our body joined to each other?

A. Cartilages

B. Tendons

C. Ligaments

D. Muscles

#### Answer:





## 8. ..... meristem increases the length of

root and stem.

Intercalary

Apical

Lateral

Permanent

A. Intercalary

**B.** Apical

C. Lateral

## D. Permanent

#### Answer:

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## 9. ..... showed that cells and tissues can be

grown ex vivo.

Frederick Campion Steward

Gregor Johann Mendel

**Frederick Miescher** 

**Robert Brown** 

A. Frederick Campion Steward

B. Gregor Johann Mendel

C. Robert Brown

D.

#### **Answer:**



**10.** ..... is an example of genetically modified maize.

A. Vaishali

**B. Vistive Gold** 

C. MON 810

D. Amflora

#### **Answer:**

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**11.** ..... is an exotic variety of cow.

Holstein

Gir

Sahiwal

# Dangi

A. Holstein

B. Gir

C. Sahiwal

D. Dangi

Answer:



12. ..... is a layer chicken.

Brahma

Leghorn

Cochin

Aseel

A. Brahma

B. Leghorn

C. Cochin

D. Aseel

**Answer:** 



**13.** ..... is a broiler chicken.

Leghorn

Lehman

Aseel

Minorca

A. Leghorn

B. Lehman

C. Aseel

# D. Minorca

#### Answer:

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# 14. ..... is a broiler chicken.

Minroca

Ancona

Leghorn

Cochin

A. Minroca

B. Ancona

C. Leghorn

D. Cochin

#### Answer:

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**15.** Cartilage is found......

all around the cells in body

in nose, ear, larynx, trachea

between the muscles and skin

around the blood vessels

A. all around the cells in body

B. in nose, ear, larynx, trachea

C. between the muscles and skin

D. around the blood vessels

Answer:

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16. Which of the following is an exotic variety

of cow?

**Plymouth Rock** 

New hampshire

**Black Rock** 

**Brown Swiss** 

A. Plymouth Rock

B. New hampshire

C. Black Rock

D. Brown Swiss

#### **Answer:**



**17.** ..... epithelium is present in the inner suface of respiratory tract.

Stratified

Columnar

Ciliated

Cuboidal

A. Stratified

# B. Columnar

C. Ciliated

D. Cuboidal

## Answer:

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18. Bones consist of osteocytes embedded in

solid ground substance made up of...

calcium bicarbonate

calcium carbonate

calcium phosphate

calcium sulphate

A. calcium bicarbonate

B. calcium carbonate

C. calcium phosphate

D. calcium sulphate

Answer:

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19. ..... helps in growth of branches,

formation of leaves and flowers.

Lateral meristem

Apical meristem

Intercalary meristem

Xylem

A. Lateral meristem

**B.** Apical meristem

C. Intercalary meristem

D. Xylem

#### Answer:



# 20. ..... tissue is present in the hard coat

of seeds, outer covering of coconut.

Parenchyma

Xylem

Collenchyma

Sclerenchyma

A. Parenchyma

B. Xylem

C. Collenchyma

D. Sclerenchyma

## Answer:

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**21.** The cells of ..... tissue are dead.

Parenchyma

Collenchyma

Sclerenchyma

all of these

A. Parenchyma

B. Collenchyma

C. Sclerenchyma

D. all of thses

Answer:

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22. Cuboidal epithelium is found in ...... inner surface of mouth, blood vessels inner layer of skin tubules of kidney, salivary gland inner surface of respiratory tract

A. inner surface of mouth, blood vessels

B. inner layer of skin

C. tubules of kidney, salivary gland

D. inner surface of respiratory tract

Answer:



**23.** Complete the analogy

Inner surface of mouth: Squamous epithelium:

Inner surface of intestine : .....



**24.** Complete the analogy

Glandular epithelium : Secretion of sweat, oil ::

Cuboidal epithelium:.....





# **25.** Complete the analogy

Respiratory tract : Ciliated columnar

epithelium : Kidney tubules : .....

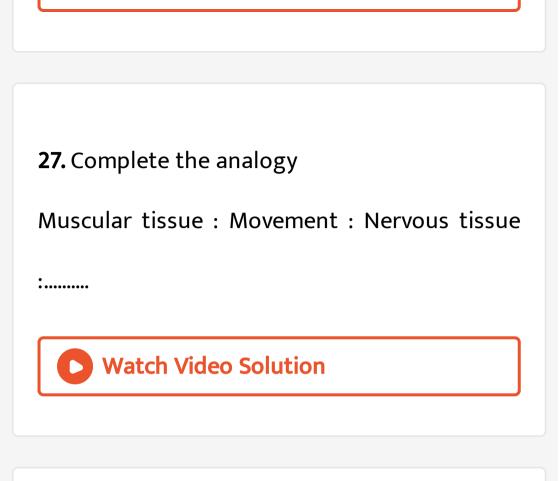
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# **26.** Complete the analogy

Outer layer of skin : Stratified epithelium : :

Inner layer of skin :.....

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# 28. Complete the analogy

. . . . . . . . . . .

Tendons : Join muscles to bones : : Ligaments :



**29.** State whether the following statements are true or false. Correct the false statement: Simple squamous epithelium is present in respiratory tract.

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**30.** State whether the following statements are true or false. Correct the false statement: Glandular epithelium is present in kidneys.





31. State whether the following statements are

true or false. Correct the false statement:

Chlorenchyma helps the plant to float in water.

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**32.** State whether the following statements are true or false. Correct the false statement: Striated muscles are also called involuntary muscles.



# **33.** State whether the following statements are true or false. Correct the false statement:

Chloroplast is present in permanent tissues.



**34.** State whether the following statements are true or false. Correct the false statement:

Lateral meristem increase girth (diameter) of

the root and stem.



**35.** State whether the following statements are true or false. Correct the false statement: Due to use of seeds of GM crops, there is decrease in nutritive value and increase in loss of crops.



**36.** State whether the following statements are true or false. Correct the false statement: In a bioreactor, cells can be grown in a more nutritive medium and protected from pathogens.

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37. State whether the following statements are

true or false. Correct the false statement:

Rare and endangered plants can be grown by

tissue culture and can be protected from

extinction.



38. State whether the following statements are true or false. Correct the false statement:The silk thread is formed from the secretion of the sweat glands of silkworm.

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**39.** State whether the following statements are true or false. Correct the false statement: Rhode Island Red, New Hampshire, Plymouth Rock, Black Rock are varieties of chicken reared for both eggs as well as meat.



**40.** State whether the following statements are true or false. Correct the false statement: Phloem consists of thick-walled dead cells.



**41.** State whether the following statements are true or false. Correct the false statement: Stratified squamous epithelium is present in inner surface of mouth, esophagus, blood vessels and alveoli.

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**42.** State whether the following statements are true or false. Correct the false statement:

Broiler chickens are raised for eggs.



**43.** State whether the following statements are true or false. Correct the false statement: Non- striated muscles bring about contraction and relaxation of heart.



## 44. State whether the following statements

#### are true or false. Correct the false statement:

Simple squamous epithelium is present in respiratory tract.



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## **45.** ..... supports internal organs.

Areolar tissue

Adipose tissue

Lymph

Tendon

A. Areolar tissue

- B. Adipose tissue
- C. Lymph
- D. Tendon

#### **Answer:**

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**46.** .....Join two bones to each other.

A. Cartilages

B. Tendons

C. Ligaments

D. Muscles

## Answer:

**Watch Video Solution** 

# **47.** ..... is an exotic variety of cow.

Holstein

Gir

Sahiwal

# Dangi

A. Holstein

B. Gir

C. Sahiwal

D. Dangi

Answer:



48. Which of the following is an exotic variety

of cow?

**Plymouth Rock** 

New hampshire

**Black Rock** 

**Brown Swiss** 

A. Plymouth Rock

B. New hampshire

C. Black Rock

D. Brown Swiss

#### Answer:



**49.** State whether the following statements are true or false. Correct the false statement: Simple squamous epithelium is present in respiratory tract.



50. State whether the following statements

are true or false. Correct the false statement:

Chlorenchyma helps the plant to float in water.



# 51. Find the odd man out

Xylem, phloem, permanent tissue,

meristematic tissue.

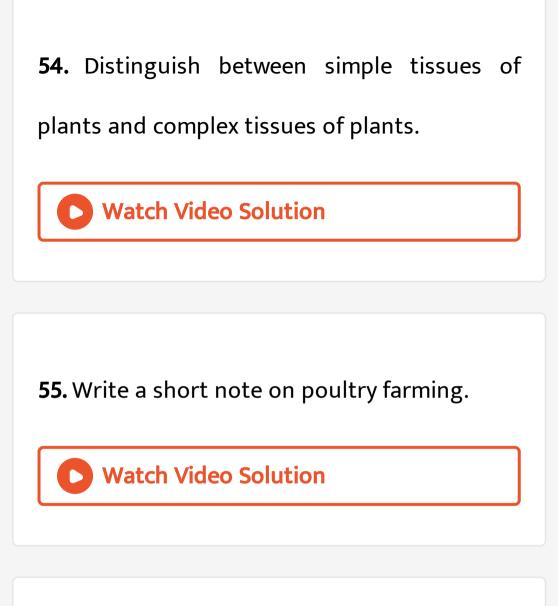
# 52. Find odd man out

Epithelium, muscle fibre, nerve fibre, epidermis.

Watch Video Solution
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## 53. Write short notes

**Striated Muscles** 



**56.** Write a note on sericulture.

57. Explain types, location and function of

Meristematic tissue in tabular form:



58. Write short notes:

Genetic engineering



59. Explain the location, structure and function

of ciliated epithelium.

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**60.** Explain the meaning of biotechnology and its impact on agricultural management with suitable examples.

61. Define the term tissue and explain the

concept of tissue culture.

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62. Protective coverings in the animal body are

called ..... tissues.

meristematic

muscular

epithelial

bone

A. meristematic

B. muscular

C. epithelial

D. bone

Answer:

Watch Video Solution

63. Epithelial tissue is present in .....

skin

inner surface of blood vessels

walls of the alveoli

all of these

A. skin

B. inner surface of blood vessels

C. walls of the alveoli

D. all of thses

Answer:

64. ..... helps in secretion of digestive juice,

absorption of nutrients.

Glandular epithelium

Columnar epithelium

Cuboidal epithelium

Ciliated epithelium

A. Glandular epithelium

B. Columnar epithelium

C. Cuboidal epithelium

D. Ciliated epithelium

#### Answer:



# 65. ..... supports internal organs.

Areolar tissue

Adipose tissue

Lymph

Tendon

A. Areolar tissue

B. Adipose tissue

C. Lymph

D. Tendon

## Answer:



66. ..... tissue helps in insulation, supply of

energuy, stroage of fats.

Areolar tissue

Adipose tissue

Muscular tissue

**Epithelial tissue** 

A. Areolar tissue

B. Adipose tissue

C. Muscular tissue

D. Epithelial tissue

Answer:

67. ..... connect muscles to bones.

Ligaments

Tendons

Cartilages

Nerves

A. Ligaments

B. Tendons

C. Cartilages

D. Nerves

**Answer:** 



68. .....Join two bones to each other.

A. Cartilages

B. Tendons

C. Ligaments

D. Muscles

**Answer:** 

69. ..... meristem increases the length of

root and stem.

Intercalary

Apical

Lateral

Permanent

A. Intercalary

**B.** Apical

C. Lateral

D. Permanent

#### Answer:



70. ..... showed that cells and tissues can

be grown ex vivo.

Frederick Campion Steward

Gregor Johann Mendel

**Robert Brown** 

A. Frederick Campion Steward

B. Gregor Johann Mendel

# C. Robert Brown

D.

## Answer:



## 71. ..... is an example of genetically

modified maize.

Vaishali

Vistive Gold

## MON 810

# Amflora

A. Vaishali

B. Vistive Gold

C. MON 810

D. Amflora

Answer:

72. ..... is an exotic variety of cow. Holstein Gir Sahiwal Dangi A. Holstein B. Gir C. Sahiwal

D. Dangi

**Answer:** 



73. ..... is a layer chicken.

Brahma

Leghorn

Cochin

Aseel

A. Brahma

B. Leghorn

C. Cochin

## D. Aseel

## Answer:

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# 74. ..... is a broiler chicken.

Leghorn

Lehman

Aseel

Minorca

A. Leghorn

B. Lehman

C. Aseel

D. Minorca

## Answer:

Watch Video Solution

# 75. ..... is a broiler chicken.

Minroca

Ancona

Leghorn

# Cochin

A. Minroca

B. Ancona

C. Leghorn

D. Cochin

Answer:

76. Cartilage is found......

all around the cells in body

in nose, ear, larynx, trachea

between the muscles and skin

around the blood vessels

A. all around the cells in body

B. in nose, ear, larynx, trachea

C. between the muscles and skin

D. around the blood vessels

Answer:



# 77. Which of the following is an exotic variety

of cow?

Plymouth Rock

New hampshire

**Black Rock** 

**Brown Swiss** 

A. Plymouth Rock

B. New hampshire

C. Black Rock

D. Brown Swiss

## Answer:

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# 78. ..... epithelium is present in the inner

suface of respiratory tract.

Stratified

Columnar

Ciliated

Cuboidal

- A. Stratified
- B. Columnar
- C. Ciliated
- D. Cuboidal

#### **Answer:**



79. Bones consist of osteocytes embedded in

solid ground substance made up of...

calcium bicarbonate

calcium carbonate

calcium phosphate

calcium sulphate

A. calcium bicarbonate

B. calcium carbonate

C. calcium phosphate

D. calcium sulphate

#### Answer:

80. ..... helps in growth of branches,

formation of leaves and flowers.

Lateral meristem

Apical meristem

Intercalary meristem

Xylem

A. Lateral meristem

B. Apical meristem

C. Intercalary meristem

D. Xylem

#### Answer:



# 81. ..... tissue is present in the hard coat of

seeds, outer covering of coconut.

Parenchyma

Xylem

Collenchyma

Sclerenchyma

A. Parenchyma

B. Xylem

C. Collenchyma

D. Sclerenchyma

## Answer:

Watch Video Solution

82. The cells of ..... tissue are dead.

Parenchyma

Collenchyma

Sclerenchyma

all of these

A. Parenchyma

B. Collenchyma

C. Sclerenchyma

D. all of thses

Answer:

83. Cuboidal epithelium is found in ...... inner surface of mouth, blood vessels inner layer of skin tubules of kidney, salivary gland inner surface of respiratory tract

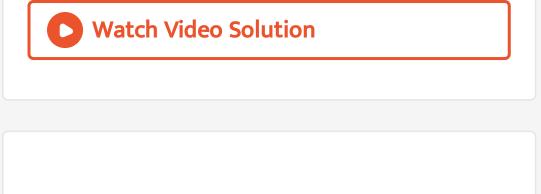
A. inner surface of mouth, blood vessels

B. inner layer of skin

C. tubules of kidney, salivary gland

D. inner surface of respiratory tract

Answer:



**84.** Complete the analogy

Inner surface of month: Squamous epithelium:

Inner surface of intestine : .....



**85.** Complete the analogy

Glandular epithelium : Secretion of sweat, oil ::

Cuboidal epithelium:.....





# **86.** Complete the analogy

Respiratory tract : Ciliated columnar

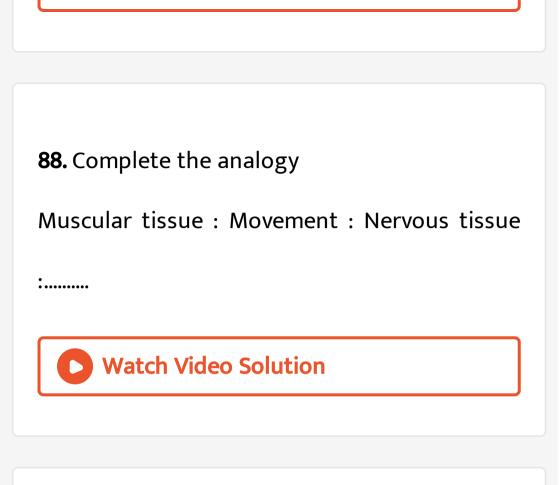
epithelium : Kidney tubules : .....

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## **87.** Complete the analogy

Outer layer of skin : Stratified epithelium : :

Inner layer of skin :.....



# **89.** Complete the analogy

. . . . . . . . . . .

Tendons : Join muscles to bones : : Ligaments :



**90.** State whether the following statements are true or false. Correct the false statement: Simple squamous epithelium is present in respiratory tract.

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91. State whether the following statements are

true or false. Correct the false statement:

Glandular epithelium is present in kidneys.





**92.** State whether the following statements are true or false. Correct the false statement: Chlorenchyma helps the plant to float in water.

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**93.** State whether the following statements are true or false. Correct the false statement: Striated muscles are also called involuntary muscles.



# 94. State whether the following statements

are true or false. Correct the false statement:

Chloroplast is present in permanent tissues.



**95.** State whether the following statements are true or false. Correct the false statement:

Lateral meristem increase girth (diameter) of

the root and stem.



**96.** State whether the following statements are true or false. Correct the false statement: Due to use of seeds of GM crops, there is decrease in nutritive value and increase in loss of crops.



97. State whether the following statements are true or false. Correct the false statement:In a bioreactor, cells can be grown in a more nutritive medium and protected from pathogens.

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**98.** State whether the following statements are true or false. Correct the false statement: Rare and endangered plants can be grown by

tissue culture and can be protected from

extinction.



99. State whether the following statements are true or false. Correct the false statement:The silk thread is formed from the secretion of the sweat glands of silkworm.

100. State whether the following statements are true or false. Correct the false statement: Rhode Island Red, New Hampshire, Plymouth Rock, Black Rock are varieties of chicken reared for both eggs as well as meat.



101. State whether the following statementsare true or false. Correct the false statement:Phloem consists of thick-walled dead cells.



**102.** State whether the following statements are true or false. Correct the false statement: Stratified squamous epithelium is present in inner surface of mouth, esophagus, blood vessels and alveoli.

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**103.** State whether the following statements are true or false. Correct the false statement:

Broiler chickens are raised for eggs.



**104.** State whether the following statements are true or false. Correct the false statement: Non- striated muscles bring about contraction and relaxation of heart.



**105.** State whether the following statements are true or false. Correct the false statement:

Lactobacilli converts lactose sugar into esters.



## **106.** ..... supports internal organs.

Areolar tissue

Adipose tissue

Lymph

Tendon

A. Areolar tissue

- B. Adipose tissue
- C. Lymph
- D. Tendon

#### **Answer:**

Watch Video Solution

**107.** .....Join two bones to each other.

A. Cartilages

B. Tendons

C. Ligaments

D. Muscles

## Answer:

**Watch Video Solution** 

# 108. ..... is an exotic variety of cow.

Holstein

Gir

Sahiwal

## Dangi

A. Holstein

B. Gir

C. Sahiwal

D. Dangi

Answer:



109. Which of the following is an exotic variety

of cow?

Plymouth Rock

New hampshire

**Black Rock** 

**Brown Swiss** 

A. Plymouth Rock

B. New hampshire

C. Black Rock

D. Brown Swiss

### Answer:



110. State whether the following statementsare true or false. Correct the false statement:Simple squamous epithelium is present inrespiratory tract.



111. State whether the following statements

are true or false. Correct the false statement:

Chlorenchyma helps the plant to float in water.



## 112. Find the odd man out

Xylem, phloem, permanent tissue,

meristematic tissue.

113. Find odd man out

Epithelium, muscle fibre, nerve fibre, epidermis.

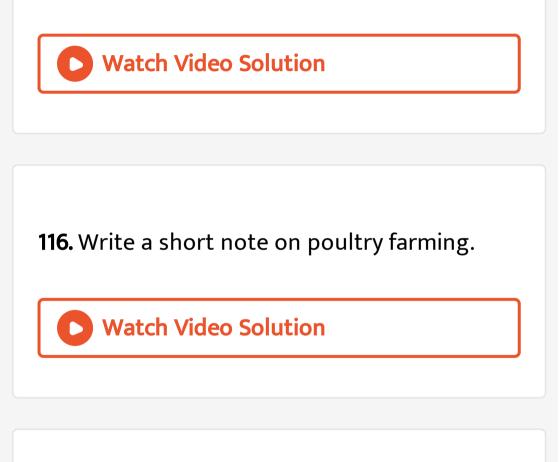


114. Write short notes

**Striated Muscles** 

115. Distinguish between simple tissues of

plants and complex tissues of plants.



**117.** Write a note on sericulture.

118. Explain types, location and function of

Meristematic tissue in tabular form:



119. Write short notes:

Genetic engineering



120. Explain the location, structure and function of ciliated epithelium.
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**121.** Explain the meaning of biotechnology and its impact on agricultural management with suitable examples.

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concept of tissue culture.