



## **BIOLOGY**

# **BOOKS - UNITED BOOK HOUSE**

# HINDU SCHOOL PAPER



1. Select the correct pair from the followings-

A. Gibberellin-Stimulate	growth of
cambium	
B. Gibberellin-Organic acid	with $N_2$
C. Gibberellin-Synthesized	in the
meristematic tissue o	of the growing
region of root and stem	
D. Gibberllin-Stimulate th	he growth in
internodes but does n	ot increase the
number of nodes	

Answer:



**2.** Read the following statements and choose the correct one-

A. Progesterone stops ovulation ad

menstrual cycle in pregnancy

B. Blood pressure, respiration, respiration

rate, heart beat rate reduced by thyroxin

C. Walking and learning of speech are

inborn reflex

#### D. In human 31 pair cranial nerve and 12

pair spinal nerve is present

#### **Answer:**

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#### 3. Match the words in Column A with Column B

#### and the proper alternate:

Column-A	Column-B /		
A Nerve	(i) Give nutrition to neurone and replace nerve cell when it is dead		
B. Nuroglea	(ii) Control imotion like shyness anger, love etc.		
C. Thalamus	(iii) Vascular & covered with connective tissue		
() A () A Co	(iv) -Searching reproduction site & partner for reproduction		

A. A-(iv),B-(ii),C-(i),D-(iii)

B. A-(iii),B-(i),C-(ii),D-(iv)

C. A-(i),B-(iv),C-(iii),D-(ii)

D. A-(ii),B-(iii),C-(iv),D-(i)

**Answer:** 

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**4.** Consider the following differences between sexual and asexual reproduction and choose

#### the correct ones

Asexual reproduction	Sexual reproduction
<ol> <li>Offspring born from two oposite sex organism</li> <li>Offspring born from fertilization between male &amp; female gamet</li> <li>Spores derive from mitosis or meiosis</li> <li>Genetical characters of offspring are same as parents<sup>11</sup></li> </ol>	<ol> <li>Individual born directly from a single organism</li> <li>Spore germinate to create new offspring</li> <li>Gamets derived from meiosis</li> <li>Due to mutation offspring is not totally similar with parents</li> </ol>

#### A. I,II

#### B. I,III

#### C. II,IV

#### D. III,IV

#### **Answer:**



**5.** Choose the statement which is not correct regarding meiosis-

A. In meiosis mother cell divides two times to form four haploid reproductive cells B. In meiosis exchange of parts of two or four chromatids of two nonsister chromatids of bivalant chromosome C. Meiosis changes the number of chromosome in species

D. Seperation of chromosome in meiosis-I

and chromatids in meiosis -II takes place

#### **Answer:**



6. Autolysis starts by increasing activation of

lysosome-State which stage of life show this

character-

A. New born

B. Adolescence

C. Senescence

D. Adulthood

#### Answer:

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7. Which pair is correct?

A. YyRR-Green Round

B. YyRR-Green wrinkled

C. Yyrr-Yelllow wrinkled

D. YyRr-Yellow wrinkled

#### Answer:

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8. Which is not a genetical disease?

A. Thalassemia

B. Pneumonia

C. Colour blindness

D. Haemophilia

#### Answer:

Watch Video Solution

**9.** How many sex chromosomes are there in a sex cell of human-

A. 46

B. 22

C. 2

D. 1

#### Answer:

Watch Video Solution

# **10.** Choose the correct sequence in the evolution of horse-

A. Eohippus-Equs-Pliohippus-Merychippus-

Mesohippus

B. Eohippus— Mesohippus—Merycippus—

Mesohippus

C. Eohippus—Pliohippus— Mesohippus—

Equus— Merychippus

D. Eohippus— Mesohippas-merychyippas-

plyohippas- Equus

Answer:

Watch Video Solution

11. The organic base that produced in Miller-

Urey experiment-

A. Urea

B. Formic acid

C. Adenine

D. Glycine

**Answer:** 

Watch Video Solution

12.	Choose	which	statement	is	in	Lamarck	
hyp	othesis-						
	A. Struggle for existance						
	B. Prodigality of Production						
	C. Natural Selection						
	D. Law	of i	nheritance	0	f	acquired	
	charac	ters					
Ans	swer:						

**O** Watch Video Solution

**13.** Nitrous oxide, Chlorofluro carbon. Carbondi-oxide, Hydrogen sulphide, Ammonia- Choose the number of greenhouse gas from above list-

- A. 2
- B. 5
- C. 4
- D. 3

#### Answer:



**14.** Which of the following is related with sanctuary -

A. Controled by central government throught its own law and maintainance procedure B. Minimum size of 1000 heactares C. Hunting, business, experiments with wild-life is strictly prohibited with law by state-government

### D. Confirmation of ecological conservation

as well as participation of local people

who are depend on that ecosystem.

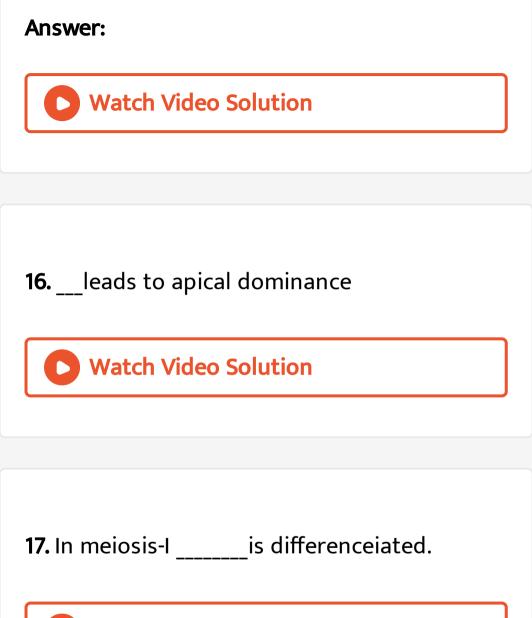
Answer:

Watch Video Solution

15. Which of the following statement is not

correct about PBR-

A. with PBR it is possible to conserve local biodiversity, sustainable use of them or to regain them for necessary use B. A proved data of local biodiversity is established which is done and created by local people C. It is necessary to build biodiversity management committee for PBR D. Revival and safe protection of destroyed forest are to be ensure



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18. The point of location of a gene in a chromsome is called Watch Video Solution **19.** helps rohu fish to swim in different layer in water by maintaining different specific

gravity.

Watch Video Solution

20. If non-destroyable pestiside enters into food chain, it leads to Watch Video Solution **21.** Infection of part of the respiratory tube takes place in smokers. Watch Video Solution

22. Decide whether the following statements

are true or false:

Yellow spot generate in the central point of

choroid.

**Watch Video Solution** 

**23.** Decide whether the following statements are true or false: chromosome is actually different from of DNA

Watch Video Solution

**24.** Decide whether the following statements are true or false:

Male genotype of 44AA + XX.



25. Decide whether the following statements are true or false:Organism with naturally selected can reproduce enormously and the favourable variations aggregate to produce new species.



26. Decide whether the following statements

are true or false:

Nitrobactor can change ammonia directly into

nitrate.

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**27.** Decide whether the following statements are true or false:

Hypothalamus regulates body temperature,

hunger, thrist and sleep.



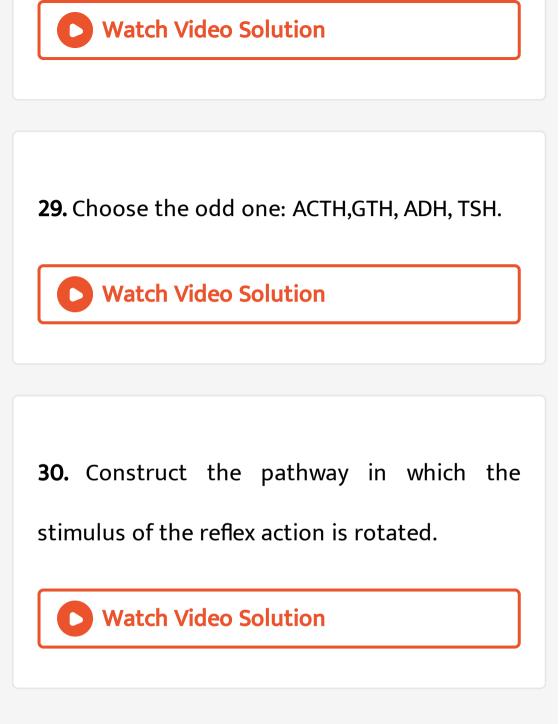
28. Match the words in column A with those

which are most appropriate in column B and

re-write the correct pairing mentioning the

serial no. of both column:

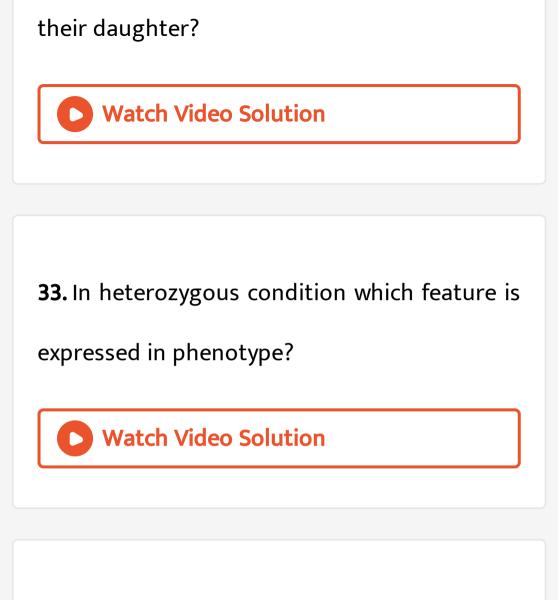
	100-
Column A	Column B
2.13 Feedback control	(a) Ratio of Genotype & Phynotype
2.14 Mitosis	<ul><li>is not different</li><li>(b) Increased the temperature of atmosphere</li></ul>
2.15 Incomplete dominance 2.16 Fevourable mutation 2.17 N <sub>2</sub> O	<ul> <li>(c) Generally flowers are bisexual</li> <li>(d) TSH—Thyroxine</li> </ul>
2.18 Self pollination	<ul> <li>(e) Help to win in Struggle</li> <li>(f) Flowers are bright and with necter</li> </ul>
·	(g) Regeneration of arm of starfish or tail of lizard



**31.** Given below a pair of related terms. Write suitable word in the gap of second pair, following the relationship in the first pair. Anaphage: Polar movement of chromatid or Chromosome :: \_\_\_\_ completion of spindle fibre structure.

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**32.** If a haemophilic carrier woman marries a haemophilic man, will the disease manifest in



**34.** Fill the form below on the bais of analogous organ -

I	Serial Homologous organ		Animal	Structure	Functi	on
ł	1		Insect	Extention of cuticle	•	- 1
1	2		Bird	Conversion of Forelimb		.
	3		Bat	Extention of Skin		



**35.** Among the follwing four terms three include the other one. Find out that subject and write it.

Pollen grains, P.M., Metallic objects, Asbestor fibers.



**36.** Enter the name of any of the endemic species that a foreign tourist can see when visiting India.

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**37.** Imagine and write how a person's metabolism is regulated by hormones when he suddenly eats more sugary foods at any invitation.



38. what is parotid gland



**39.** During the festival, a person riding a motorbike accidentally suffered severe injuries to various parts of his hind brain. Evaluate the impact it can have on that person's life.



40. Make a list of bone joint and muscles you

use during cricket game practice.

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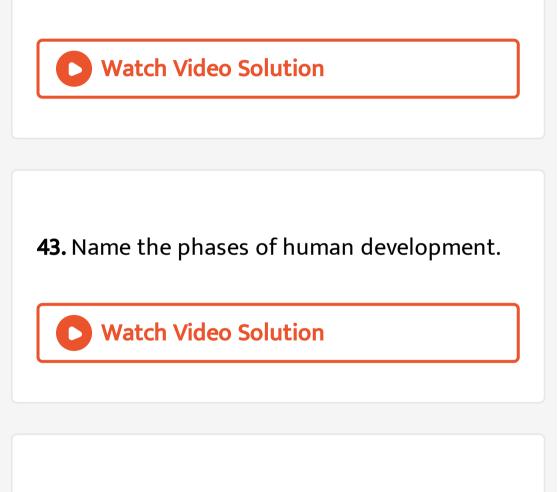
41. Describe the asexual reproduction process

of an algae and a cnidaria.

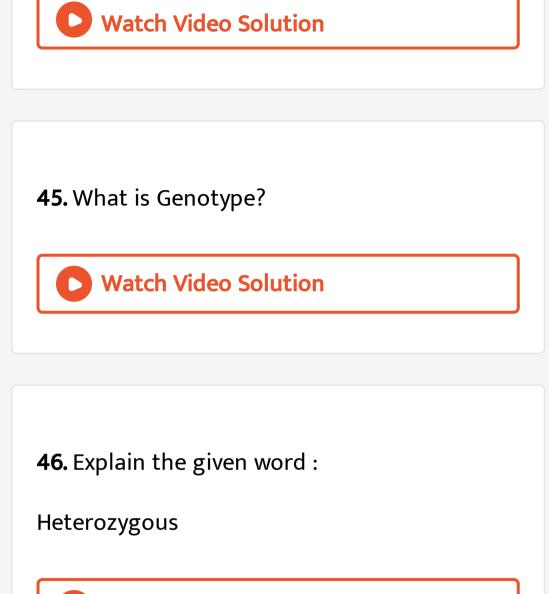


42. Analyze what happens when a cell loses

control over its division.



**44.** Mention the formula obtained from Mendel's dihybride cross.





**47.** Explain the given word :

Organism.

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**48.** Determine the phenotype of the genotypes generates from the dibybrid cross of guineaping-

Bbrr

Watch Video Solution

**49.** Determine the phenotype of the genotypes

generates from the dibybrid cross of guineaping-

bbRr



**50.** Determine the phenotype of the genotypes

generates from the dibybrid cross of guineaping-

BbRR

**51.** Determine the phenotype of the genotypes generates from the dibybrid cross of guineaping-

BBrr



**52.** name the reactants and produced organic compounds that forms in Miller & Urey's experiment.





# 53. How offsprings will be affected if a carrier

female is married to a X-linked diseased male.

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54. Evaluate what adaptive benefits the airsacs

provide pigeons when flying.

55. Analyze how the results of the following

work endanger biodiversity—

Consturction of roads and railways through

deep forests.



56. Analyze how the results of the following

work endanger biodiversity—

Construction of multistored building by

distinguishing wetland.



**57.** Analyze how the results of the following work endanger biodiversity—

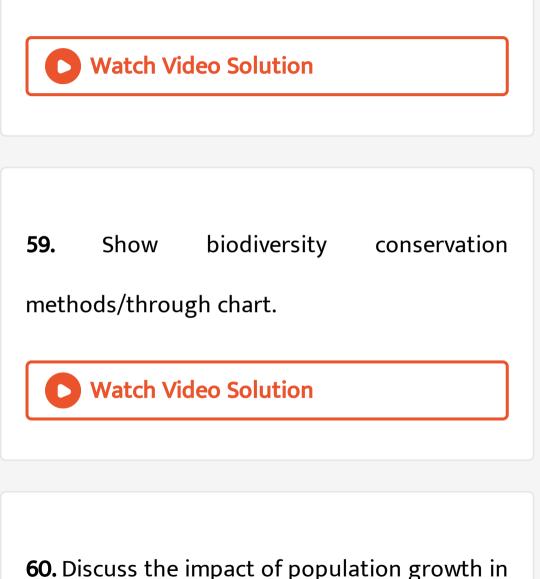
Free acces of tourists to the Biodiversity hotspot.

**Watch Video Solution** 

**58.** Analyze how the results of the following work endanger biodiversity—

Uncontrolled use of pesticides in agricultural

land.



**co.** Discuss the impact of population growt

the following case- Sweet water



**61.** Air pollution causes a problem in the human respiratory system due to overactivation of a stimulus. Idenfity the problem and list its symptoms.

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**62.** Draw a neat diagram of human eye and label the following parts :

sclera, choroid , vitreous humour, optic nerve.



**63.** Draw a neat diagram of metaphase stage in an animal mitosis cell division and label the following parts : continuous spindle fibre,polar

region, chromosome. chromosomal fibre.

**64.** Distinguish between mitotic and meiotic cell divisions in animals on the basis of following feature: -

Site of occurrence

Watch Video Solution

65. Distinguish between mitosis and meiosis

based on the following feature as directed-

Nature of chromosomere division

**66.** Prepare a list-where meiosis cell division happen in plant and animal body. Differ mitosis and meiosis with the following point-The number of cells to be generated.

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**67.** Explain regeneration process in Planaria. Describe how artificial vegetative generation occurs through grafting.

**68.** how the offsprings affect if a marriage happens between the wife is normal but husband is affected with that x-linked discease.

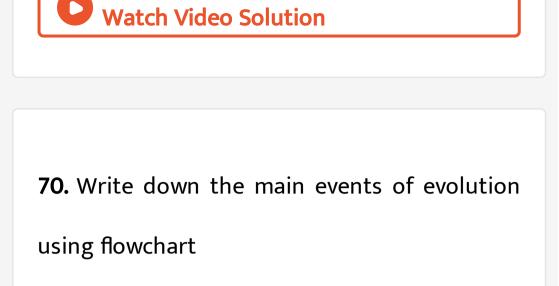
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69. How offsprings will be affected if marriage

happens between y-linked diseased male and

normal female







71. Analyze how honeybee carry information

when they discover food.

72. How offsprings will be affected if X- linked

diseased female is married with normal male



73. Assume the following event and the causes

and write it:

Crisis of biodiversity habitat.



74. Assume the following event and the causes

and writ it:

The fear of disappearance of so many

indigenous fishes.

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**75.** How will offsprings be affected if x-linked diseased female is married with X-linked diseased male.



76. Assume the following event and the causes

and writ it:

Deforestration and loss of ecosystem.

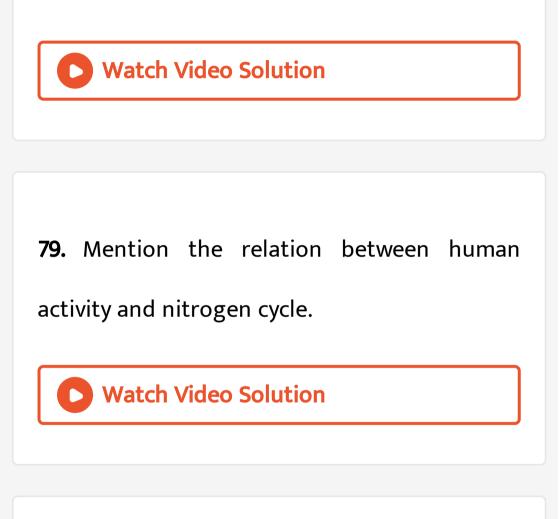


77. Due to changes in land usage, biodiversity

is facing extinction in many places today.

78. Evaluate how human health is being

affected by pollution.



80. Select the correct pair from the followings-

A. Gibberellin-Stimulate	growth of					
cambium						
B. Gibberellin-Organic acid with $N_2$						
C. Gibberellin-Synthesized	in the					
meristematic tissue o	of the growing					
region of root and stem						
D. Gibberllin-Stimulate th	he growth in					
internodes but does n	ot increase the					
number of nodes						





**81.** Read the following statements and choose the correct one-

A. Progesterone stops ovulation and menstrual cycle in pregnancy

B. Blood pressure, respiration, respiration

rate, heart beat rate reduced by thyroxin

C. Walking and learning of speech are

inborn reflex

### D. In human 31 pair cranial nerve and 12

pair spinal nerve is present

#### **Answer:**

> Watch Video Solution

# 82. Match the words in Column A with Column

#### B and the proper alternate:

Column-A	Column-B /		
A. Nerve	(i) Give nutrition to neurone and		
• • •	'replace nerve cell when it is		
B. Nuroglea	dead (ii) Control imotion like shyness anger, love etc.		
C. Thalamus	(iii) Vascular & covered with		
D. Driving force of movement	connective tissue (iv) -Searching reproduction site & partner for reproduction		

A. A-(iv),B-(ii),C-(i),D-(iii)

B. A-(iii),B-(i),C-(ii),D-(iv)

C. A-(i),B-(iv),C-(iii),D-(ii)

D. A-(ii),B-(iii),C-(iv),D-(i)

**Answer:** 

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**83.** Consider the following differences between sexual and asexual reproduction and choose

# the correct ones

Asexual reproduction	Sexual reproduction		
<ol> <li>Offspring born from two oposite sex organism</li> <li>Offspring born from fertilization between male &amp; female gamet</li> <li>Spores derive from mitosis or meiosis</li> <li>Genetical characters of offspring are same as parents<sup>11</sup></li> </ol>	<ol> <li>Individual born directly from a single organism</li> <li>Spore germinate to create new offspring</li> <li>Gamets derived from meiosis</li> <li>Due to mutation offspring is not totally similar with parents</li> </ol>		

# A. I,II

#### B. I,III

# C. II,IV

# D. III,IV

#### **Answer:**



**84.** Choose the statement which is not correct regarding meiosis-

A. In meiosis mother cell divides two times to form four haploid reproductive cells B. In meiosis exchange of parts of two or four chromatids of two nonsister chromatids of bivalant chromosome C. Meiosis changes the number of chromosome in species

D. Seperation of chromosome in meiosis-I

and chromatids in meiosis -II takes place

#### **Answer:**



85. Autolysis starts by increasing activation of

lysosome-State which stage of life shows this

character-

A. New born

B. Adolescence

C. Senescence

D. Adulthood

Answer:

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86. Which pair is correct?

A. YyRR-Green Round

B. YyRR-Green wrinkled

C. Yyrr-Yelllow wrinkled

D. YyRr-Yellow wrinkled

#### Answer:

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87. Which is not a genetical disease?

A. Thalassemia

B. Pneumonia

C. Colour blindness

D. Haemophilia

#### Answer:

Watch Video Solution

# **88.** How many sex chromosomes are there in a

sex cell of human-

A. 46

B. 22

C. 2

D. 1

#### Answer:

Watch Video Solution

# **89.** Choose the correct sequence in the evolution of horse-

A. Eohippus-Equs-Pliohippus-Merychippus-

Mesohippus

B. Eohippus— Mesohippus—Merycippus—

Mesohippus

C. Eohippus—Pliohippus— Mesohippus—

Equus— Merychippus

D. Eohippus— Mesohippus—Mery chippus

-Pliohippus-Equus

Answer:

90. The organic base that produced in Miller-

Urey experiment-

A. Urea

B. Formic acid

C. Adenine

D. Glycine

**Answer:** 

91.	Choose	which	statement	is	in	Lamarc				
hyp	hypothesis-									
	A. Struggle for existance									
	B. Prodigality of Production									
	C. Natural Selection									
	D. Law	of in	heritance	of	а	cquired				
	charac	torc								
	CildidC	Lers								
Ans	swer:									

**92.** Nitrous oxide, Chlorofluro carbon. Carbondi-oxide, Hydrogen sulphide, Amonia- Choose the number of greenhouse gas from above list-

- A. 2
- B. 5
- C. 4
- D. 3

#### Answer:



**93.** Which of the following is related with sanctuary -

A. Controlled by central government through its own law and maintainance procedure B. Minimum size of 1000 hectares C. Hunting, business, experiments with wild-life is strictly prohibited with law by state-government

# D. Confirmation of ecological conservation

as well as participation of local people

who depend on that ecosystem.

Answer:

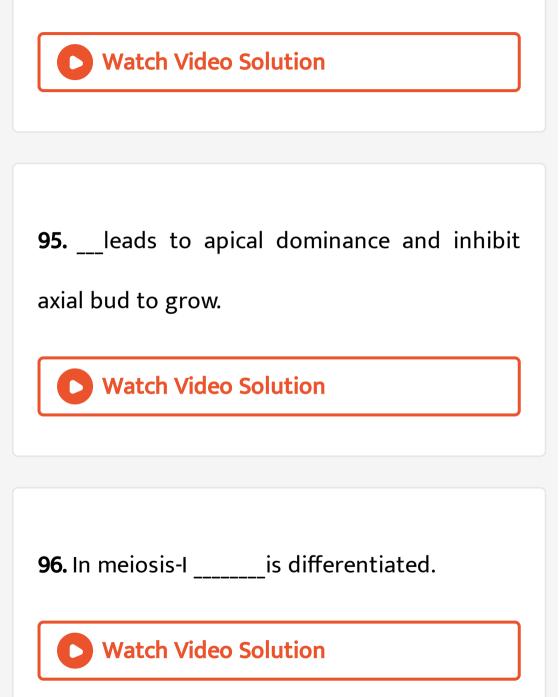
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94. Which of the following statement is not

correct about PBR-

A. with PBR it is possible to conserve local biodiversity, sustainable use of them or to regain them for necessary use B. A proved data of local biodiversity is established which is done and created by local people C. It is necessary to build biodiversity management committee for PBR D. Revival and safe protection of destroyed forest are to be ensure

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**97.** The point of location of a gene in a

chromsome is called\_\_\_\_

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**98.** \_\_\_\_\_helps rohu fish to swim in different layer in water by maintaining different specific gravity.

99. How a non-destroyable pesticides enter a

food chain?

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**100.** Infection of \_\_\_\_\_ part of the respiratory

tube takes place in smokers.



**101.** Decide whether the following statements are true or false:

Yellow spot generate in the central point of

choroid which is in the opposite of pupil and

with in the central axis of eyeball.



102. Decide whether the following statements

are true or false:

Chromatin fibre and chromosome is actually

different from of DNA spiral.



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Male genotype of 44AA + XX.

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Hypothalamus regulates body temperature,

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#### 107. Match the words in column A with those

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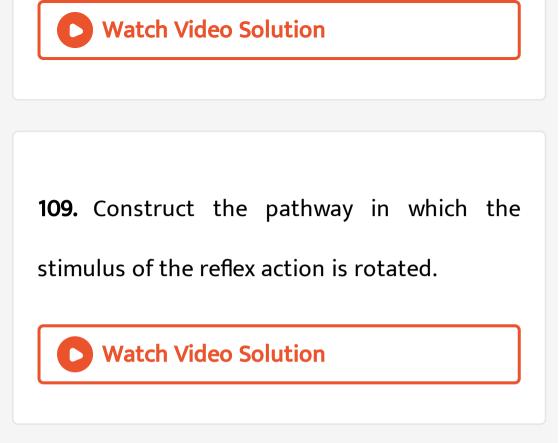
re-write the correct pairing mentioning the

#### serial no. of both column:

Column A	Column B
2.13 Feedback control	(a) Ratio of Genotype & Phynotype
2.14 Mitosis	(b) Increased the temperature of
<ul> <li>2.15 Incomplete dominance</li> <li>2.16 Fevourable mutation</li> <li>2.17 N<sub>2</sub>O</li> <li>2.18 Self pollination</li> </ul>	atmosphere (c) Generally flowers are bisexual (d) TSH—Thyroxine (e) Help to win in Struggle (f) Flowers are bright and with necter
	(g) Regeneration of arm of starfish or tail of lizard

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**108.** Choose the odd one: ACTH,GTH, ADH, TSH.



110. Given below a pair of related terms. Write suitable word in the gap of second pair, following the relationship in the first pair.Anaphage: Polar movement of chromatid or

Chromosome :: \_\_\_\_ completion of spindle fibre

structure.



111. If a haemophilic carrier woman marries a

haemophilic man, will the disease manifest in

their daughter?



112. In heterogygous condition which feature

is expressed in phenotype?

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## 113. Fill the form below on the bais of

#### homologous organ -

Ls.	erial	Homologous organ	Animal	Structure	Function
F	1		Insect	Extention of cuticle Conversion of Forelimb	
	2 3		Bird Bat	Extention of Skin	•

**114.** Among the follwing four terms three include the other one. Find out that subject and write it.

Pollen grains, S.P.M., Metallic objects, Asbestos

fibers.



**115.** Enter the name of any of the endemic biodiversity that a foreign tourist can see when visiting India.



**116.** Imagine and write how a person's metabolism is regulated by hormones when he suddenly eats more sugary foods at any invitation.

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**117.** During the festival, a person riding a motorbike accidentally suffered severe injuries

to various parts of his hind brain. Evaluate the

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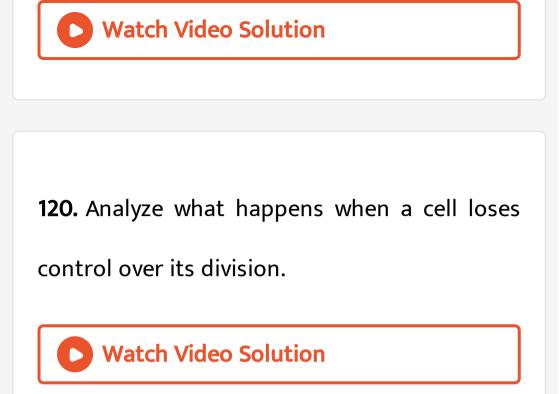
118. Make a list of bone joint and muscles you

use during cricket game practice.

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119. Describe the asexual reproduction process

of an algae and a cnidaria.



# 121. Mention the ratio obtained from Mendel's

dihybride cross.

**122.** Explain the given word :

Genotype

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**123.** Explain the given word :

Heterozygous

**124.** Explain the given word :

Organism.

Watch Video Solution

**125.** Determine the phenotype of the genotypes generates from the dibybrid cross of guineaping-

Bbrr

**126.** Determine the phenotype of the genotypes generates from the dibybrid cross of guineaping-

bbRr



**127.** Determine the phenotype of the genotypes generates from the dibybrid cross of guineaping-

BbRR

**128.** Determine the phenotype of the genotypes generates from the dibybrid cross of guineaping-

BBrr



129. Classify the organic compounds produced

by the Miller and Urey experiments by

characters.





130. Determine what favourable variations are

to be generated if a polar bear is to survive in

the hostile environment of global warming.

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**131.** Evaluate what adaptive benefits the airsacs provide pigeons when flying.

132. Analyze how the results of the following

work endanger biodiversity—

Construction of roads and railways through

deep forests.

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133. Analyze how the results of the following

work endanger biodiversity—

Construction of multistored building by

distinguishing wetland.



**134.** Analyze how the results of the following work endanger biodiversity—

Free access of tourists to the Biodiversity hotspot.

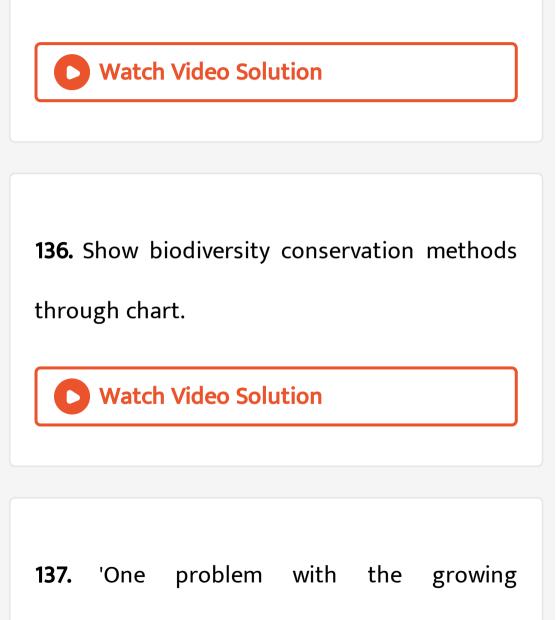
Watch Video Solution

135. Analyze how the results of the following

work endanger biodiversity—

Uncontrolled use of pesticides in agricultural

land.



population is the lack of fresh water'-Prove the

accuracy of the statement.

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**138.** Air pollution causes a problem in the human respiratory system due to overactivation of a stimulus. Idenfity the problem and list its symptoms.

139. Draw a neat diagram of human eye and

label the following parts :

sclera,cornea ,vitrious humour, optic nerve.



**140.** Draw a neat diagram of metaphase stage

in an animal mitosis cell division and label the

following parts :

continuous spindle fibre,polar

region, chromosome. chromosomal fibre.



**141.** Prepare a list-where meiosis cell division happen in plant and animal body. Differ mitosis and meiosis with the following points-Place of division

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**142.** Prepare a list-where meiosis cell division happen in plant and animal body. Differ

mitosis and meiosis with the following points-

The nature of chromosome differentiation



**143.** Prepare a list-where meiosis cell division happen in plant and animal body. Differ mitosis and meiosis with the following three points-

The number of cells to be generated.



**144.** Explain regeneration process in Planaria. Describe how artificial vegetative generation occurs through grafting.



**145.** Describe how the offspring affect if a marriage happens between the individuals where both husband and wife are affected with a x-linked disease or wife is normal but husband is affected with that x-linked disease. Judge what you think might be the three

reasons that. Mendel's success in the

compression test.



146. Genetic counseling is required if the

family has thalassemia-Explain

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147. Describe organic evolution

**148.** Explain how parental species A and T can participate in Divergent and convergent evolution. Analyze how honeybees carry information when they discover food.

**O** Watch Video Solution

**149.** Assume the following event and the causes and write it:

Disruption of the prey-predator balance of the

ecosystem of Sundarbans.



150. Assume the following event and the

causes and write it:

Crisis of biodiversity habitat.

**151.** Assume the following event and the causes and write it:

The fear of disappearance of so many indigenous fishes.

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**152.** Assume the following event and the causes and write it:

The fertile energy of the soil is reduced and

acidification of surface water.





153. Assume the following event and the

causes and write it:

Deforestration and loss of ecosystem.

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**154.** Due to changes in land use policy, biodiversity is facing extinction in many places today-Judge the accurary of the statement with five examples.



**155.** Write down the speciality of hot-spot. Evaluate how human health is being affected by pollution.



**156.** Evaluate the human interactions which destroy the nitrogen cycle. Why biosphere

conservation?