



BIOLOGY

BOOKS - UNITED BOOK HOUSE

RANIGANJ CORONATION SCHOOL PAPER



1. Which of the following statement is not correct regarding botanical garden-

A. Here plants are conserved I natural evironment B. Endagered plant species is conserved by germplasm storage and conservation C. Only Indigenous plants are conserved D. Extinctionable plant species are conserved through tissue culture

Answer:

2. Decide which of the following statement regarding in-situ conservation is not correct?

A. Stop poaching by law

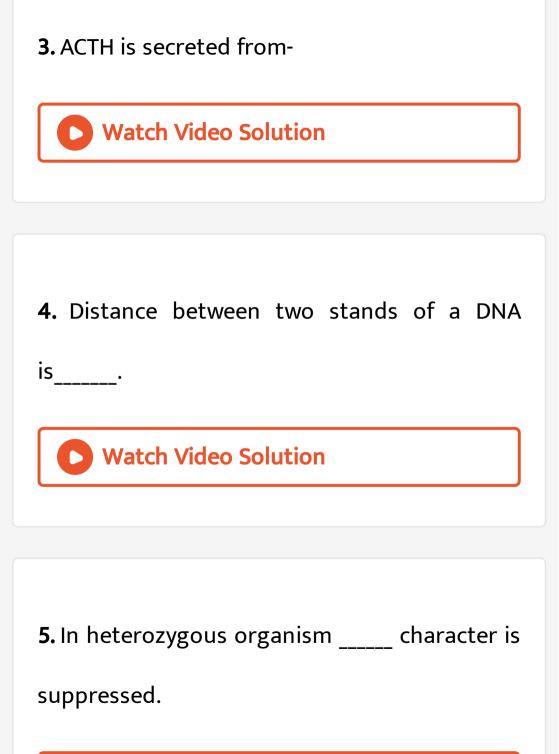
B. Preservation at own habitat

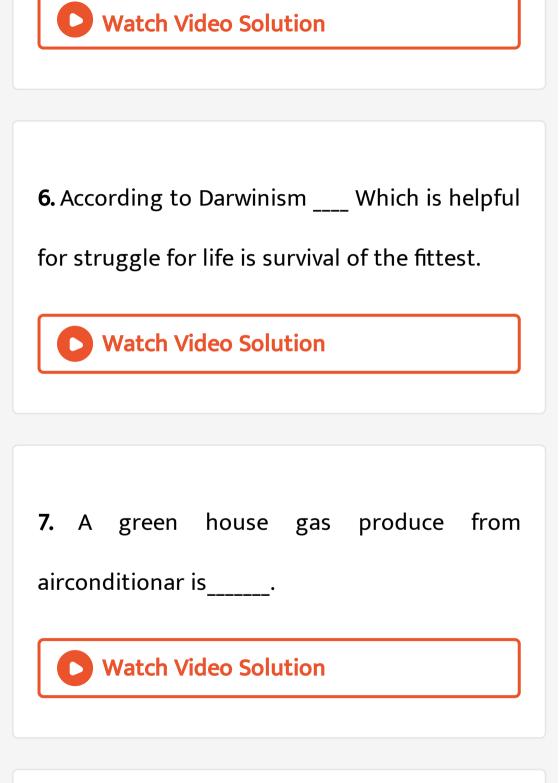
C. Storing sperm, ovum or zygote through

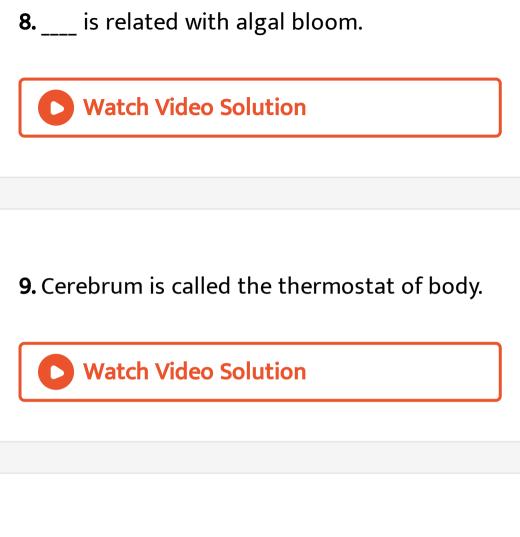
cryopreservation

D. Prohibition of cultivation and grazing

Answer:







10. Chromosomes move to the pole of spindle

fibre in metaphase.

11. In case of thalassemia deformation of bones takes place.

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12. Mutation is the main source of evolution.

13. True or False: Orang-outang is an endangered species in eastern-himalayan hot-spot.



14. Choose the odd one and write it: Diabetes incipidus, Dwarfism, Thalassemia, Diabetes melitus.



15. What is the relation between stimulus and

tactic movement.



16. Given below a pair of related terms. Write suitable word in the gap of second pair, folloiwng the relationship in the first pair.

Adenin: Purine:: ____: Pyrimidine.,

17. Give example of the different types of a

same gene.



18. Give example of a mutation of human population.

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19. What is the index of the gradual increase in

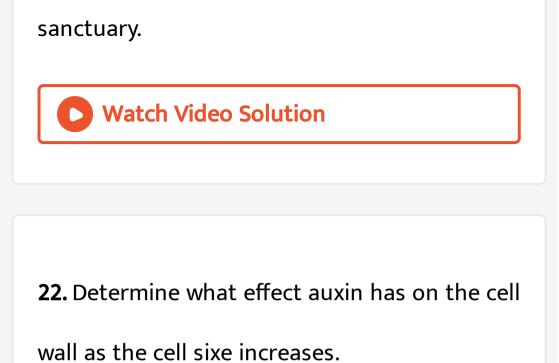
the complexity of the heart structure of



20. Among the following four terms three include the other one. Find out the terms and write it. FPC,EDC,JFM, VFG.

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21. Name a medium of in-situ conservation process other than national forest and



23. Show an example of the way of feedback

control.



24. Write differences in between Diabetes melitus and diabetes incipidus-with following characters-cause, Types of urine.

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25. Briefly state the event that proceeds a stimulus in organisms.

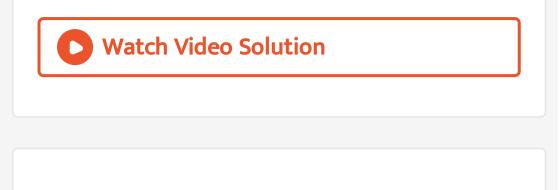
26. Significance of mitosis-Cell replacement and compensation of cell-Give four examples of these things from the nature based on your experience.

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27. Relate Mitosis and meiosis with asexual

and sexual reproduction.

28. What are the steps of micropropagation.



29. Make the genetic layout of the four types

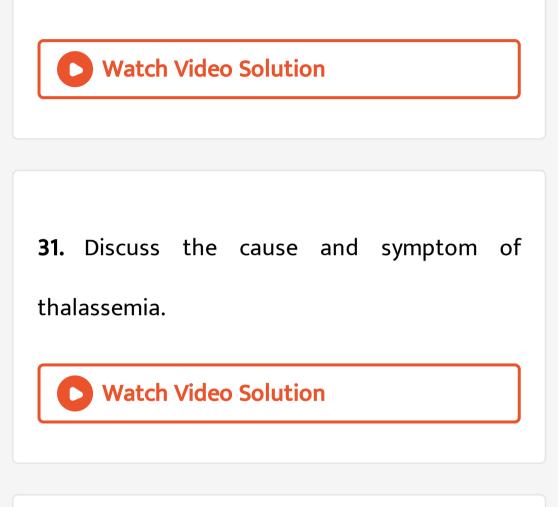
of hybrids you know.



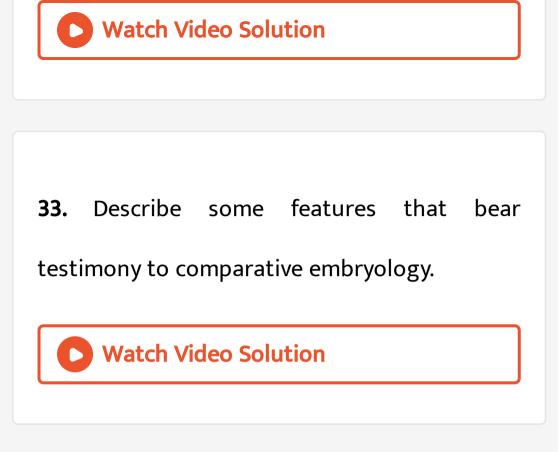
30. Identify where the ratio of phenotype and genotype is 1, if in Mendel's dihybrid

cross(Yellow Round x Green Curly) is done

upto F_2 generation.



32. Write the interspecific and interaspecific struggle you find in lion



34. State the adaptation of camels with the

shape of its RBC.

35. Analyze the role of nitrous oxide as green

house gas.



36. Establish a relationship of water quality degradation with growing population problems.

37. Evolution of different species in a given area starting from a point and spreading to other geographical areas is known as



38. List up the biodiversities which may extinct

with the natural calamitis that effect and

damage the salt water habitat in Sundarban



39. Draw a neat diagram of the cross section of human eyeball and label the following parts:

Lens, Cornea, Yellow spot, Vitreous humor.



40. Draw a neat diagram of sexual reproduction of flowering plant and label the following parts:

Transfer the pollen to the stigma

41. Draw a neat diagram of sexual reproduction of flowering plant and label the following parts:

Forward movement of pollen tube with male

pronucleus through style

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42. Draw a neat diagram of sexual reproduction of flowering plant and label the

following parts:

Zygote formation



43. Draw a neat diagram of sexual reproduction of flowering plant and label the following parts:

Cropnucleus or 3n nucleus formation.

44. Enlist three alternate characters of metaphase and telophase. Name two body parts in plant where mitosis cell division takes place.

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45. Differentiate sexual and asexual reproduction based on following points-Nature of cell division.

46. Distinguish between asexual and sexual reproduction on the basis of following features:

Nature of offspring

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47. Distinguish between asexual and sexual reproduction on the basis of following features:

Number of Parents



48. Show with a cross Genealogy of haemophilia. Differe between dominant and recessive characters.



49. Write three steps of Mendel's test on a pea

plant. Explain why incomplete dominance

happen.



50. If proper mutation does not happen mammals could be extinct in extreme hostile environment-Explain two such mutations or variations.

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51. Prodigality of production intensifies the struggle at an immense rate'-Please express you opinion about the statement.



52. Disucss conservation efforst for an endangered mamals that lives in the grasslands along the river. Identify which steps in the nitrogen cyccle is associated with pollution?



53. Explain how biosphere reseve can make

conservation efforts successful.

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54. If JFM is successful then estimates what might change in the lifestyle of local indigenous peopleS?

55. Express your opinion as an environmentlist which things you could include in PBR. 'Asthma occurs due to human activity'-Judge the logic of the statement.

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56. Which of the following statement is not correct -

A. Herbarium houses dried, pressed and

preserved plant specimens .

B. Botanical gardens have collection of

living plants for reference.

C. A museum has collection of

photographs of plants and animals

D. Key is taxonomic aid for identification of

specimens

Answer:

57. Decide which one of the following statements regarding in-situ conservation is not correct?

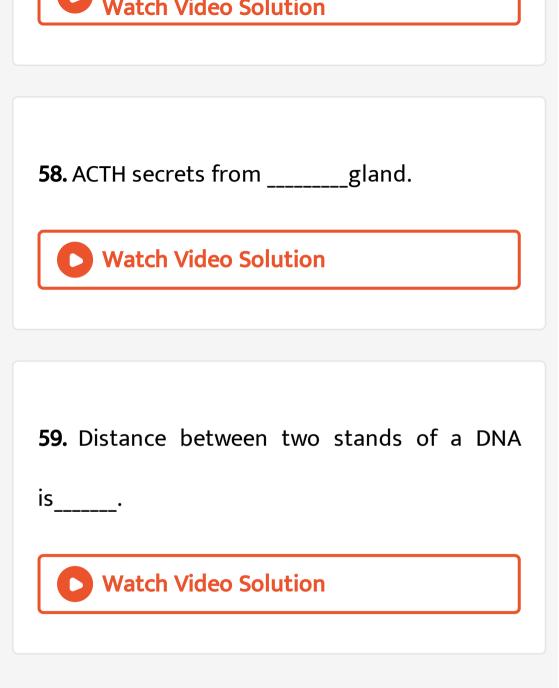
- A. Stop poaching by law
- B. Supply of proper habitat, food and water
- C. Storing sperm, ovum or zygote through

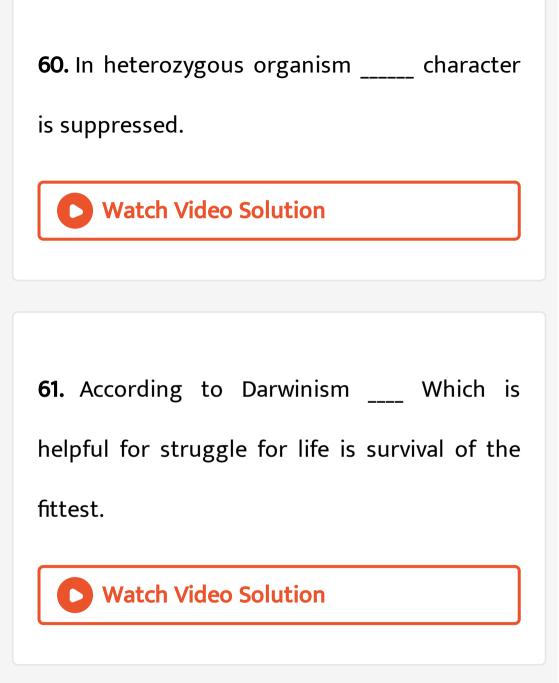
cryopreservation

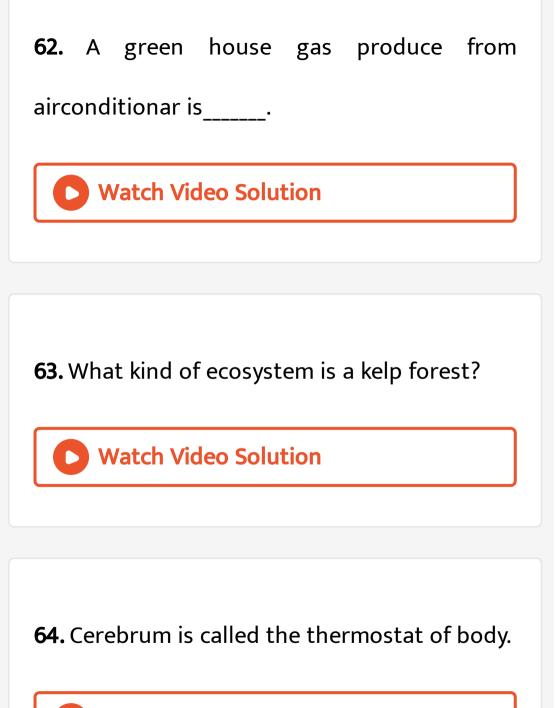
D. Prohibition of cultivation and pasture

Answer:









65. Chromosomes move to the pole of spindle

fibre in metaphase.



66. In case of thalassemia deformation of

bones takes place.



67. When does a point mutation lead to a

missense mutation?

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68. Name an endangered species in Western

ghats hot-spot.



69. 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:

ColumnA	Column B
2.13 Progesterone2.14 Hetero chromatin2.15 Dihybrid cross2.16 Analogous organ	 (a) Convergent evolution (b) Arthritis, Osteoporosis (c) Divergent evolution (d) Implantation

Column A	Column B
2.17 Biosphere reserve	(e) With small amount of genes and highly coiled
2.18 Senescence	(f) Forest suitable for versatile use(g) YYRR × yyrr

70. Choose the odd one and write it: Diabetes incipidus, Dwarfism, Thalassemia, Diabetes melitus.



71. What is the relation between stimulus and

tactic movement.



72. Given below a pair of related terms. Write suitable word in the gap of second pair, folloiwng the relationship in the first pair.

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73. Give example of the different types of a

same gene.

74. Give example of a mutation of human population.

75. What is the index of the gradual increase in the complexity of the heart structure of vertebrates?



76. Among the following four terms three include the other one. Find out the terms and write it. FPC,EDC,JFM, VFG.



77. Name an example of a national forest and

sanctuary.

78. Determine what effect auxin has on the cell

wall as the cell size increases.



79. Show an example of the way to control feedback.



80. Write differences in between Diabetes mellitus and diabetes insipidus-with following characters- cause, types of urine.



81. Write the features of reflex action



82. Significance of mitosis-Cell replacement and compensation of cell-Give four examples of these things from the nature based on your experience.

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83. Explain Mitosis and meiosis in respect to

asexual and sexual reproduction.

84. Discuss the steps of micropropegation.



85. Identify where the ratio of phenotype and genotype is 1, if in Mendel's dihybrid cross(Yellow Round x Green Curly) is done upto F_2 generation.

86. Discuss the cause and symptoms of thalassemia.

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87. Write the interspecific and intraspecific struggle



88. Describe some features of comparative embryology.
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89. Relate the physiological adaptation of

camels with the shape of it's RBC.

90. Analyze the role of nitrous oxide as green

house gas.

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91. Establish a relationship of water quality degradation with growing population problems.

92. In terms of food crisis in a geographical area how a possible but unused biodiversity can resolve the crisis-tell us know what you think.

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93. List up the biodiversities which may extinct with the natural calamities that effect and damage the salt water habitat in Sundarban

94. Draw a neat diagram of the cross section of human eyeball and label the following parts:

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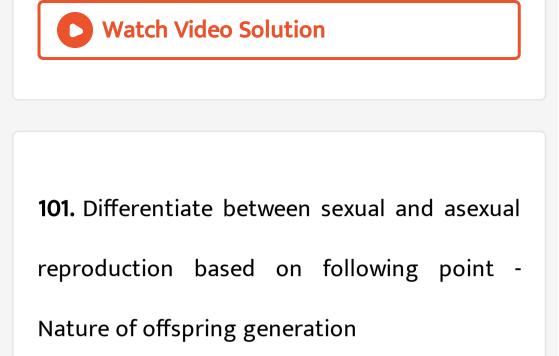
98. Draw a neat diagram of sexual reproduction of flowering plant and label the following parts: Cropnucleus or 3n nucleus formation.



99. Enlist three alternate characters of metaphase and telophase. Name four body parts in plant where mitosis cell division takes place.

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100. Differentiate sexual and asexual reproduction based on following point - Nature of cell division.



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102. Differentiate sexual and asexual reproduction based on following point-

Number of parental organism.





103. Show with a cross Genealogy of haemophilia. Differentiate between dominant and recessive characters.

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104. Write three steps of Mendel's test on a pea plant. Explain why incomplete dominance happen.

105. Behaviour is essential for evolution-Prove the accuracy of the statement. If proper mutation does not happen, mammals could be extinct in extreme hostile environment-Explain two such mutations or variations.

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106. Prodigality of production intensifies the struggle at an immense rate'-Please express

you opinion about the statement. Write down with a chart-the nitrogen containing compounds that produce in Miller and Urey's experiment.

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107. Discuss conservation efforts for an endangered mammals that live in the grasslands along the river. Identify which step in the nitrogen cycle is associated with population?



108. Changes in land use policy have endangered reptiles and amphibians. Identify those species with the help by interviewing and environment list. Explain how biosphere reserve can make conservation efforts successful.



109. Explain how air pollution is related to fast living. If JFM is successful then estimate what might change in the lifestyle of local indigenous people?

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110. Express your opinion as an environmentalist which things you could include in PBR. 'Asthma occurs due to human activity'-Judge the logic of the statement.



