



BIOLOGY

BOOKS - UNITED BOOK HOUSE

DHAKA NCL VIDHYAMANDIR PAPER



 Volvox attract towards low light but move distant from bright light. What kind of movement is this?

- A. Phototrophic
- B. Phototactic
- C. Photonastic
- D. Hydrotrophic

Answer:



2. Read the following sentences and identify

the incorrect one-

A. Hypothalamus control the secretion of

adenohypophysis

B. ADH and Oxitocene store in neurohypophysis

C. Insulin increase intake of glucose in ell

and decrease glucose in blood

D. Estrogen secreates from the lydig's cell

fo testes

Answer:

3. Determine the number of spinal nerves in human body properly-

A. 31

B. 12 pair

C. 31 pair

D. 33 pair

Answer:

4. Identify the stage of mitosis where spindle

forms completely-

A. Prophage

B. Metaphage

C. Anaphage

D. Telophage

Answer:

5. Determine which of the following statements regarding the importance of the cell cycle is correct-

A. The amount of DNA in nucleous become

threefold

B. Tumors arise when control is lost at

various points in the cell cycle

C. Divided cells do not have consistent

elements

D. All cells are equally involved in the cell

cycle

Answer:



6. What are the 4 types of pollution?

7. Calculate the probable percentage of female child in fourth case where the first three child is already female of a couple

A. 0.25

B. 0.5

C. 0.75

D. 1



8. Select the proper number of genotype you get from F_2 generation of Mendel's dihybrid cross-

- A. 1
- B. 3
- C. 5
- D. 9



9. Calculate the probable change of being a haemophilic female child if a haemophilic male is married to a normal female

A. 0.25

B. 0

C. 0.75

D. 1



10. Identify which of the following indicated inter specifi struggle-

A. Struggle between two 'Boal fish' to feed

the 'Puntia fist' in pond

B. Struggle between two 'Catla fish' to feed

the algae I pond

C. Struggle between two kingfisher to eat

rohy fingerlings

D. The struggle between kingfisher and

crane to hunt a fish in a pond

Answer:

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11. What is homologous organ and what is

analogous organ?

12. Identify which of the following function is not correct about the adaptation of swim bladder-

A. Helps to change direction

B. Helps in exchanging $O_2 - CO_2$

C. Create a thrust

D. Increases and decreases the amoung of

gas and helps to Drown and float



13. Which of the following is correct about denitrification-

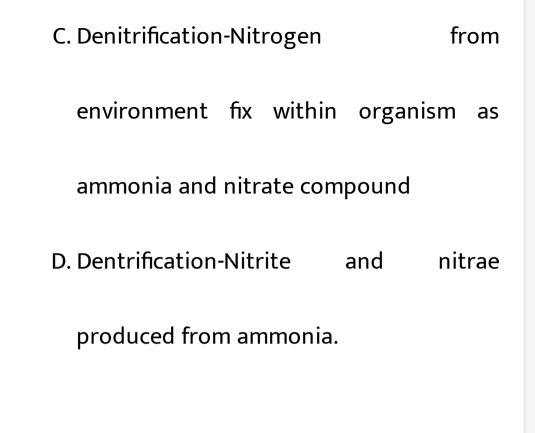
A. Denitrification-Nitrogen is released from

the nitrate and returns to the environment.

B. Denitrification-Ammonia is released from

the nitrogen deficient compound of the

dead organism



Answer:

14. Identify the green house gas responsible

for Ozoe hole depletion-

A. CFC

 $\mathsf{B.}\,CO_2$

 $\mathsf{C}.O_3$

D. Water vapour

Answer:

15. Identify which compound in the detergent

causes eutophication in waterbody-

A. Sulphate

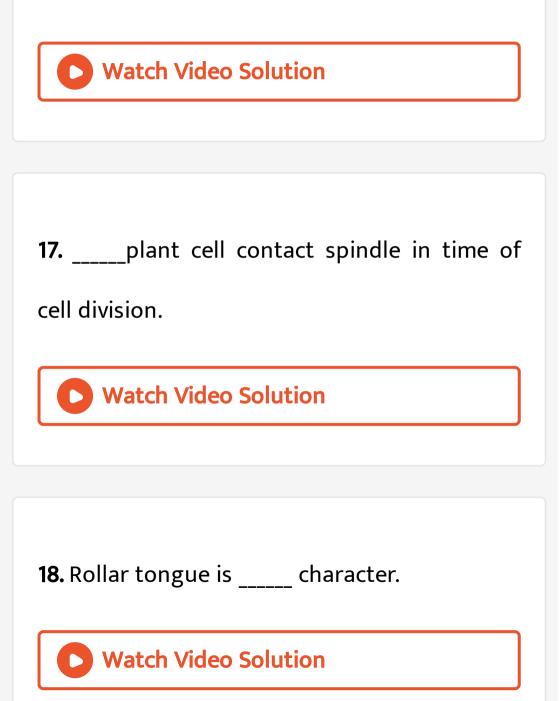
B. Phosphate

C. Carbonet

D. Sulphide

Answer:

16. Write the three layered membrane of brain.



19. In Miller & Urey's experiment

nitrogenous base was produced.



20. Primary condition of hotspot selection is

___ species abundance.

21. Through food chain _____ pollutant magnify from one trophic level to another trophic level.



22. Decide whether the following statements are true or false:

Gibberelin hormone helps in the growth of

internode.



23. Decide whether the following statements are true or false:

Crop nucleus of flowering plant is triploid.



24. Decide whether the following statements

are true or false:

Different phenotypes carry same genotype.

25. Decide whether the following statements

are true or false:

Evolution of vestegeal organ results increased

performance.

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26. Decide whether the following statements

are true or false:

In in-situ controls body temperature, hunger, thirst, sleep.



27. 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 cross	(a) Convergent evolution(b) Arthritis, Osteoporosis(c) Divergent evolution
2.16 Analogous organ	(d) Implantation

ColumnA	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

28. Choose the odd ona and write it: FSH, LH,

TSH, LTH.



29. What is the function of the fluid that

present in the lumen of CNS?

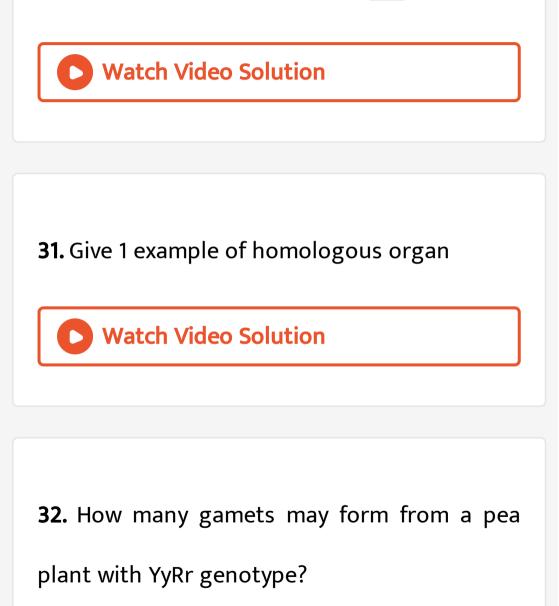
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30. Given below a pair of related terms. Write

suitable word in the gap of second pair,

following the relationship in the first pair.

Stem bud: Eichornea:: Leaf bud: ____.



33. The communication behaviour of honey

bee is related with which demand?



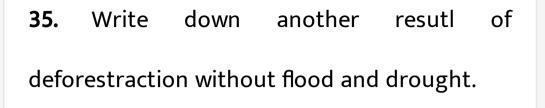
34. Among the following our terms include the

other one. Find out that term and write it.

Green house gas, Non-biodegradable pesticde,

Pollution, Chemical fertilizer.







36. From where GTH are secreted? State the

functions of the same.

37. Analyze how and in which situation a farmer uses artificial hormone in his farm ?Watch Video Solution

38. Analyze what activity may hamper if an injury takes place in frontal lobe of human brain.

39. Name any four relfex action that is done to

avoid sudden danger to you.

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40. Enlist the place of meiosis cell division in

algae, moss, fern, flowering plant.

41. Analyze what could happen in case of telophage-

A. Nuclear membrane

B. Chromatic fibre

C. Nucleolus

D. spindle fibre

Answer:

42. What is the significance of stock and scion

in grafting.



43. If the chromosome number in a leaf is 14,

then what will be the chromosme number in

pollen, ovum and in crop nucleus?



44. Write in a table, the dominant and recessive characters in case of Mendel Selected Seed.



45. judge how genetic counselling can reduce

social problems?

46. Write difference between homologous and

analogous organ based on - Origin

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47. Write difference between homologous and

analogous organ based on - Fucntion

48. Write difference between homologous and

analogous organ based on - Structure

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49. Write difference between homologous and analogous organ based on - Indicator of organic evolution

50. Write down the adaptive importance of the

following organ or behavioural character-

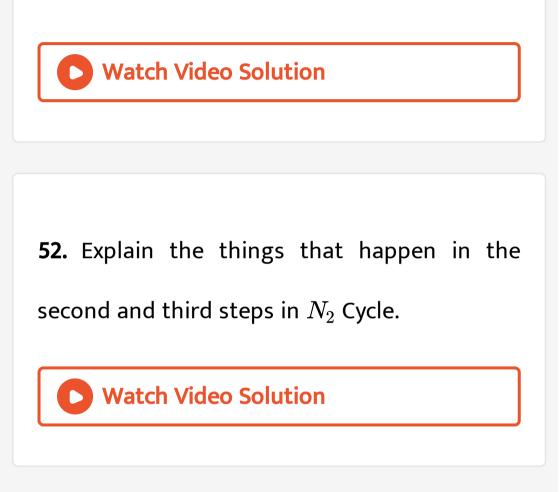
Salt gland of Sundari



51. Discuss the following events as mentioned in the evolutionary theory of Darwin:
Prodigality of production
Adaptation is the change of shape, physiological functions and behaviour of

organism'-Justify the statement with the help

of any two examples.



53. Extinctin of species can bring many diseaters'-Judge the logic of the statement.



54. If climate change continue in India in coming year then which species may harm largely? Explain.



55. You travel two forest in this year's holiday.

How you identify which is santuary and which

is national forest?





56. Draw a neat diagram of the vertical section of eyeball of human eye and label the followig

parts:

Lens, Cornea, Retina, Blind spot.



57. Draw a neat diagram of eukaryotic chromosome and label the following parts: Chromatid, Telomere, Centromere , NOR.



58. Write the chemical structure of chromosome. Why meiosis is called reduction division?



59. What do you mean by pure and hybrid?

Explain with example.

60. Show with a cross how hereditary transmission happen incase of colour blindness? What problems a person with thalassemia suffers?

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61. Discuss the importance of fossils in case of

horse evolution. What do you mean by survival

of the fittest,.

62. Write relation between evolution and adaptation. Write three adaptive characters of air sac of pigeon for their flying.

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63. Analyze biomagnification is related with which pollution? What are the ecological significances of the harmful effect of sound pollution?



64. Explain what will be the effect on environment if the amount of wetland is constantly decreasing due to growin population of human.

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65. What is self pollination? Give example in

plants with self pollination



