



BIOLOGY

BOOKS - UNITED BOOK HOUSE

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Exercise

1. 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:



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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 secretes from the lydig's cell
fo testes

Answer:



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

A. 31

B. 12 pair

C. 31 pair

D. 33 pair

Answer:



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4. Identify the stage of mitosis where spindle forms completely-

A. Prophase

B. Metaphase

C. Anaphase

D. Telophase

Answer:



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

A. The amount of DNA in nucleus 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:



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6. What are the 4 types of pollution?



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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

Answer:



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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

Answer:



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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

Answer:



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10. Identify which of the following indicated inter specific 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?



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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 amount of gas and helps to Drown and float

Answer:





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

C. Denitrification-Nitrogen from

environment fix within organism as

ammonia and nitrate compound

D. Denitrification-Nitrite and nitrate

produced from ammonia.

Answer:



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14. Identify the green house gas responsible for Ozone hole depletion-

A. CFC

B. CO_2

C. O_3

D. Water vapour

Answer:



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15. Identify which compound in the detergent causes eutrophication in waterbody-

A. Sulphate

B. Phosphate

C. Carbonet

D. Sulphide

Answer:



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16. Write the three layered membrane of brain.



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17. _____plant cell contact spindle in time of cell division.



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18. Rollar tongue is _____ character.



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19. In Miller & Urey's experiment _____
nitrogenous base was produced.



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20. Primary condition of hotspot selection is
_____ species abundance.



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



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

Gibberelin hormone helps in the growth of internode.



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

Crop nucleus of flowering plant is triploid.



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

Different phenotypes carry same genotype.



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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.





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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:

Column A	Column B
2.13 Progesterone	(a) Convergent evolution
2.14 Hetero chromatin	(b) Arthritis, Osteoporosis
2.15 Dihybrid cross	(c) Divergent evolution
2.16 Analogous organ	(d) Inplantation

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



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28. Choose the odd one and write it: FSH, LH, TSH, LTH.



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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: ____.



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31. Give 1 example of homologous organ



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32. How many gametes may form from a pea plant with YyRr genotype?



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33. The communication behaviour of honey bee is related with which demand?



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34. Among the following our terms include the other one. Find out that term and write it.
Green house gas, Non-biodegradable pesticide, Pollution, Chemical fertilizer.



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35. Write down another result of deforestation without flood and drought.



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36. From where GTH are secreted? State the functions of the same.



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



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



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39. Name any four reflex 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.



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41. Analyze what could happen in case of telophase-

A. Nuclear membrane

B. Chromatic fibre

C. Nucleolus

D. spindle fibre

Answer:



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42. What is the significance of stock and scion in grafting.



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43. If the chromosome number in a leaf is 14, then what will be the chromosome number in pollen, ovum and in crop nucleus?



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



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45. Judge how genetic counselling can reduce social problems?



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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 - Function



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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



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50. Write down the adaptive importance of the following organ or behavioural character-

Salt gland of Sundari



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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.



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52. Explain the things that happen in the second and third steps in N_2 Cycle.



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53. Extinction of species can bring many disasters'-Judge the logic of the statement.



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



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55. You travel two forest in this year's holiday. How you identify which is sanctuary and which is national forest?



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56. Draw a neat diagram of the vertical section of eyeball of human eye and label the following parts:

Lens, Cornea, Retina, Blind spot.



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57. Draw a neat diagram of eukaryotic chromosome and label the following parts:

Chromatid, Telomere, Centromere, NOR.



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



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59. What do you mean by pure and hybrid? Explain with example.



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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,.



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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?



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



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65. What is self pollination? Give example in plants with self pollination



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