



BIOLOGY

BOOKS - UNITED BOOK HOUSE

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PAPER

Exercise

1. Select which is not appropriate about cerebrum?

A. So many folds and grooves are found in
cerebrum

B. Cerebrum control body equilibrium and
muscle contraction

C. Two hemisphere of cerebrum is
connected with corpus callosum

D. Cerebrum controls intelligence and
emotion

Answer:



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2. Dogs and Cats can see better at night-

Determine its cause-

A. 1.Number of rod cells are high

B. 2.Number of cone cells are high

C. 3.Rod cells do not exist at all

D. 4.Cone cell is not effective

Answer:



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3. Which of the following statement is correct about nerve?

A. Olfactory and optic nerve is motor nerve

B. Oculomotor and hypoglossal are mixed nerve

C. Glossopharyngeal and trigeminal nerve are mixed nerve

D. Trochlear and abducens nerve are mixed nerve.

Answer:



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4. Identify which of the statement is correct about DNA-

A. 1.Cytosine and uracil are present as pyrimidine base

B. 2.Only nonhistone protein is present in DNA

C. 3.Ribose sugar is present in DNA

D. 4.Deoxyribose sugar is present in DNA

Answer:



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5. Write the correct character of sexual reproduction-

A. 1.Fertilization happens in stigma

B. 2. Male gamete enters through pollen tube micropyle and chalza towards ovule

C. 3. Pollen produce in ovary

D. 4. Pollen and ovule are always diploid

Answer:



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6. Choose the correct pair-

A. Decrease of childhood-growth rate

B. Senescence-Osteoporosis, cataract

C. Adolescence-Exposing developed

mentality

D. Developed phase-Starting of

testosterone hormone secretion

Answer:



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7. Identify which character is not about Mendel's cross-

A. Seed colour-Yellow, Green

B. Fruit shape-Swollen, grooved

C. Flower colour- Red, Pink

D. Stem length- Tall, Dwarf

Answer:



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8. Identify a dominant mutation in human-

- A. Roller tongue
- B. Csytoic fibrosis
- C. Sickle cell anemia
- D. Tey sacs disease

Answer:



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9. Which of the following you think the reason for Mendel's success in heredity experiments-

A. Selection of heterozygous plants for hybridization experiments

B. Due to relatively small size of the stamen of the selected plants, they can be easily moved and cut necessarily.

C. Other characteristic feature from outside can be easily mixed as the

selected plant pollinate through cross pollination.

D. It is possible to do self pollination and cross pollination in selected plant as it is bisexual

Answer:



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10. Determine which of the following statements is an observation of Darwin's theory-

A. Struggle for life

B. Survival of the fittest

C. Constancy of food and shelter

D. Natural selection

Answer:



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11. Which of the followings is not a reactor in Miller & Urey's experiment-

A. 1.Oxygen

B. 2.Hydrogen

C. 3.Ammonia

D. 4.Methane

Answer:



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12. Select which is not appropriate about horse evolution-

A. growth of shape

B. growth of third finger

C. Decrease in length of leg

D. The creation of a hoof to run on solid ground

Answer:



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13. Identify the green house gas that produce within the stomach of cattle and in paddy field-

A. 1.Methane

B. 2.CFC

C. 3.Nitrous oxide

D. 4.Ozone

Answer:



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14. Find out which microbes takes part in nitrification?

A. Nitrosomonas

B. Azotobactor

C. Pseudomonas

D. Thyobacillus

Answer:



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15. To recover which of the following trees and where the first JFM movement started-
Remember and write it down:

A. Shal tree, Purulia

B. Segun tree, West Midnapore

C. Shal tree, West Minapore

D. Segun tree, Bankara

Answer:



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16. _____ controls muscle contraction in time of body posture.



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17. _____ is the first and longest phase of karyokinesis.



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18. Pure black colour and rough hair of guineaping is _____character,



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19. _____gives pigeon excess buoyancy.



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20. In ___endangered animals can stay and reproduce safely.



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21. Dust, smoke, pollen etc floating in air we called_____.



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

Monkey and chimpanze have binocular vision similar to human.





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

Degenerative changes are seen in old age,



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

A 'X chromosomal' disease is colour blindness.



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

In boney fist the gas absorbing red gland is present in swim bladder.



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

Greenish-yellow cough secrete out in case of bronchitis.



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

Sperm producton is stimulated by FSH.



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28. Choose the odd and write it:

Remiges, Rectricess, Mytome, Coracobrachialis.



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29. Write based on following feature:

Difference of aqueous humour and vitreous
humour -Location.



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30. Given below a pair of related terms. Write suitable word in the gap of second pair.

Centromere: Fusion of two arm of chromosome:: _____:Protects chromosome from degeneration.



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31. In each of the terms of the evolution of the horse, a particular change is noticed-What is it?





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32. From the ratio 9:3:3:1, Mendel reached in what conclusion?



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33. The functions of cockroach's wings and pigeons are same, but where are the differences?



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34. Among the following four terms three include the other one. Find out that term and write it. Benzopyrene, Nicotine, Cancer, UV rays.



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35. What is the role of the home construction industry in environmental pollution?



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36. Write a symptom identifying the diseases that result from hormone abnormalities in the human body-less secretion of insulin



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37. Write the differences between cerebrum and cerebellum based on the following characters-Structure, Function.



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38. Write the reflexes that use maximum in time of exam from starting to end of a student.



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39. State-the role of carrier in pollination.



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40. Write the chemical constituents of chromosome with a table.



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41. Write a significance of reducing the number of chromosome and crossing over in meiosis:



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42. Cross pollination is better than self pollination'-Write two reasons.



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43. Find out the nature of genotype and phenotype that produced if a pure violet flower (dominant) is crossed with a white flower (recessive).



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44. Determine when a daughter may become colour blind?



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45. Why it is recommended to have a blood test before marriage?



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46. Determine what conclusions can be drawn from the Miller and Urey's experiment?



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47. What do you mean by inheritance of acquired characters.



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48. Explain how waggle dance helps bee to communicate with each other.



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49. Write down what conditions to consider if a forest is declared as biodiversity hot-spot?



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50. Determine what type of pollution is responsible for the following diseases—
Minamata, Black,foot disease, Asthma,
Hepatitis.



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51. Establish a workplace relationship with bronchitis and lung cancer.



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52. Evaluate what are the impacts on climate and ecosystem if a forest is arbitrarily cut down?



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53. Draw a neat diagram of the cross section of eyeball of human eye and label the following parts.

Retina, Yellow spot, Pupil, Iris



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

Kinetochores, NOR, Chromatid, Telomere





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55. Describe the double fertilization in flowering plant.



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56. Explain the process of mitosis cell division . Describe the importance of cell cycle.



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57. Explain why all the plants become tall in F_1 generation of Mendel's monohybrid cross write Mendel's law of independent assortment.



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58. What is the relation between phenotype and genotype?



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59. Discuss based on inner structure why human hand and the wing of bird is called homologous organ.



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60. Explain the role of swim bladder of rohu fish in aquatic adaptation.



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61. Describe the nitrogen fixation process by micro organisms in soil. One study found that drinking water in your area is contaminated. Study it and write what are the problems can be generated from this



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62. You see an one homed rhinoceros, when travel in Jaldapara National park. Write down

the reasons why these mammals need protection?



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63. Analyze what effects can occur on environment while making fire at road side.

Relate N_2 cycle with human activity.



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64. Describe nitrogen cycle with a word diagram.



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