



BIOLOGY

BOOKS - UNITED BOOK HOUSE

DHALPAL HIGH SCHOOL PAPER

Exercise

1. The leaf tentacles of sundew plant bend and hold when they get contact to an insect (protein). Is it an example of-

A. Thermonastic movement

B. Chemonastic movement

C. Seismonastic movement

D. Photonastic movement

Answer:



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2. Read the following statements and find which is incorrect-

A. Dwarfism is caused due to the low secretion of STH hormone

B. Heartbeat rate is increased due to adrenaline hormone

C. Diabetes insipidus is caused due to the low secretion of insulin hormone

D. Goiter is caused due to hyper secretion of thyroxine hormone

Answer:



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3. The contracting and relaxing part of pupil-

A. Cornea

B. Retina

C. Choroid

D. Iris

Answer:



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4. Determine the correct pair-

A. Anemophily-hydrilla

B. Hydrophily-Mango

C. Entomophily-Sunflower

D. Ornithophily-Wheat

Answer:



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5. In which stage of mitosis, sister chromatids become separate in-

A. Prophase

B. Metaphase

C. Anaphase

D. Telophase

Answer:



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6. In which stage of human development the reproductive organs and gland become fully developed-

A. Childhood

B. Adolescence

C. Infancy

D. Senescence

Answer:



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7. Which statement is correct about thalassemia-

A. It is sex chromosome linked disease

B. Increased amount of hemoglobin is produced in this disease

C. It is an autosomal disease

D. Oxygen carrying capacity of blood is increased in this disease.

Answer:



8. Identify the percentage of hybrid tall pea plant produce in F_2 generation of Mendell's monohybrid cross where a pure tall pea plant is crossed with a pure dwarf pea plant-

A. 0.25

B. 0.5

C. 0.75

D. 1

Answer:



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9. In human which chromosome sequence is applicable to a male-

A. $44AA+YY$

B. $44AA+XXY$

C. $44AA+XY$

D. $44AA+XYY$

Answer:



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10. Who introduced the coacervate theory-

- A. Darwin
- B. Miller and Urey
- C. Oparin
- D. Fox

Answer:



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11. Which part of plant is a potato?



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12. Which of the following statement is correct about RBC of camel-

A. with oval nucleus

B. without oval nucleus

C. with round nucleus

D. without round nucleus

Answer:



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13. The role of *Pseudomonas* bacterial in Nitrogen cycle-

A. Nitrification

B. denitrification

C. nitrogen fixation

D. ammonification

Answer:



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14. In cryo preservation the sample material is stored at-

A. $100^{\circ} C$

B. $196^{\circ} C$

C. $100^{\circ} F$

D. $-196^{\circ} C$

Answer:



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15. In which hotspot many species of rafflesia plant are found in-

A. Eastern himalay

B. Sundaland

C. Indo-Burma

D. Westernghat

Answer:



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16. The dominance of apical bud is seen due to _____ plant hormone.



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17. What is air pollution?



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18. Alternation of generation is called _____



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19. No. of air sacks in pigeons are _____.



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20. Species and their genetics variations of plant animal and microorganism of a place is called _____.



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21. _____ conservation project is situated at Lothian island sanctuary of West Bengal.



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

Cytokinin interrupts the growth of axillary bud.



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

As a result of meiosis cell division in plant cell pollen is formed.





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

To determine the gender of a human body the role of mother is major.



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

Coccyx, is an inactive organ or human being



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

The main cause of Lung cancer is sound pollution.



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27. What is water pollution?



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28. Which is different: TSH,GTH,ACTH,ADH.



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29. Which hormone is gained from coconut liquid grain?



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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.

Cell plate: Plant cell :: _____: Animal cell.



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31. How many types of gametes are found from AaBb?



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32. Show the phenotypic ratio in dihybrid cross?



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33. Write down the main difference between convergent and divergent evolution.



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34. Between these four followings three of them belong to same thing. Find them -
Western Ghat, Sundaland, Eastern Ghats, Himalaya.



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35. Write difference between Sanctuary and National Park.



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36. Write down the difference between tropic and nastic movement among these two character-nature of stimulus, effect of hormone.



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37. A function of nerve tissue of animal body_____



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38. What is horticulture?



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39. Write down the role of Mytome muscle in fish locomotion.



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40. Write down the name of four type of chromosome in the basis of the position of centromere.



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41. Write down the major stages of human development in a successive way.



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42. What is cell cycle? Give the importance of cell cycle.



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43. "Are the laws of genetics by Mendel applicable for all cases?"-Write your thinks about it.



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44. Why Mendel choosed pea tree for his experiment on genetics? Write two causes for it.



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45. Write down the role of genetic counselling in prevention of genetic disease.



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46. Write down the problems of a rohu fish whose swim bladder is damaged.



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47. Explain camel's ability to withstand extreme water loss.



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48. Explain the necessity of bee's waggle dance.



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49. Write down two reservation process to increase the number of one horned rhino in Jaldapara.



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50. Write down two harmful effects of acid rain upon living organism.



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51. Name some National Parks in India



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52. What are the 2 types of root systems?





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

Retina , Lens, Iris, Blind spot.



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54. Draw a neat diagram of a plant cell or animal cell metaphase stage of mitosis and label the following parts:

Chromosome , Spindle fibre, Polar region,
Centromere.



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55. Why meiosis cell division is called reduction division?



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56. Write down the morphological changes of cell in prophase stage of mitosis cell division.



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57. There is a delicious mango tree in your friend's house. You want to plant same kind of mango tree in your house. Explain how can you do this



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58. Explain the benefits of tiger in a dense forest for variation. How can you assume

about dominant recessive homozygous-
heterozygous and pure hybrid organism from
a genetic cross.



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59. Write Mendel's sample of experiment



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60. Explain how air sack helps pigeon in its
evolution.

'Communication exchange and problem solving are two important behavioural adaptation-Prove the statements with appropriate example.



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61. Write down the effects of sound pollution on human health.



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62. Nitrogen is a kind of chemical element whose circulation from nature to organism and vice-versa is controlled largely by microbes -analyse the statement.



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63. A long term pollution is seen recently in the capital city of India.-Identify the pollution and its causes.



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64. What are the effect of noise pollution on human and animals ?



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