



BIOLOGY

BOOKS - UNITED BOOK HOUSE

GHOOM BOYS SCHOOL PAPER

Exercise

1. Which statement is correct about nastic movement-

A. It is controlled by the intensity and direction of external stimulus

B. It is controlled by the direction or external stimulus

C. This movement is observed in root

D. It is induced movement of curvature influenced by intensity of stimulus

Answer:



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2. If a person is affected with diabetes mellitus then select the hormone from the following which he/she will be unable to secrete in adequate quantity-

A. Adrenaline

B. Insulin

C. Thyroxine

D. Testosterone

Answer:



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3. Choose the right number of spinal nerve present in human body.

A. 31 pairs

B. 12 pairs

C. 13 pairs

D. 21 paris

Answer:



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4. Identify which is not the phase of Karyokinesis-

A. Metaphase

B. synthenis phase

C. Prophase

D. Anaphase

Answer:



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5. Identify which of the following is not a structural component of RNA-

A. Ribose sugar

B. Uracil base

C. Thymine base

D. Phosphoric acid

Answer:



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6. Select the correct pair and write it-

A. Budding-Planaria

B. Fragmentation-Spirogyra

C. Regeneration-Fern

D. Multiple fission-Hydra

Answer:



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7. Determine which of the following trait in Pea plant is dominant-

- A. Wrinkled seed
- B. Green coloured seed
- C. Dwarf plant
- D. Yellow coloured seed

Answer:



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8. Determine the types of gametes that can be formed from guineaping having genotype BbRr-

A. 2

B. 4

C. 4

D. 1

Answer:



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9. Calculate the probability of the thalassaemic child born to a couple who are both carrier for thalassemia is-

A. 1

B. 0.25

C. 0.75

D. 0.5

Answer:



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10. Select what would be the genotypic ratio of F_2 generation of a monohybrid cross in case of incomplete dominance-

A. 3 : 1

B. 1 : 2 : 1

C. 9 : 3 : 3 : 1

D. 2 : 1 : 1

Answer:



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11. Remember and write the name of modern horse-

A. Eohippus

B. Pliophppus

C. Equus

D. Merichippus

Answer:



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12. Choose the animal who performed communication through specific dancing pattern regarding the source of food-

A. Chimpanzee

B. Peacock

C. Honey bee

D. Cockroach

Answer:



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13. Select which of the following phase of Nitrogen cycle *Pseudomonas* is associated with-

A. Nitrogen fixation

B. Nitrification

C. Denitrification

D. Ammonification

Answer:



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14. Decide which of the following is an example of Ex-Situ conservation-

A. Sundarban Tiger Reserce

B. Gorumara

C. Corbett National Park

D. Cryopreservation

Answer:



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15. Identify which of the following is a greenhouse gas-



Answer:



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16. Due to deficiency of _____ goiter is caused.



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17. Example of Pyrimidine base is _____.



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18. The different genotype of Pea plant may show same _____



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19. The concept of inheritance of acquired character was proposed by _____.



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20. ____ is a biosphere reserve located at Tamil Nadu.



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21. *Bacillus mycoides* is _____ bacteria.



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

Cerebellum helps to maintain body balance in human.



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

Sperm is produced as a result of meiosis.



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

Homozygote is produced from the union of T and t gametes.



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

Eohippus was the hoofed ancestor of the modern horse.



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

DDT is responsible for biomagnification.



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

Aqueous humor helps in the reflection of light.



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28. Match the words in column A with those which are most appropriate in Column B and rewrite the correct pairing mentionin the

serial number of both column.

Column A	Column B
2.13 Hypermetropia	(a) Chromosomal arrangement of human female
2.14 Cytokinesis	(b) transfer to stigma
2.15 44 AA + XX	(c) near vision is defective
2.16 Prodigality of Production	(d) formation of cell plate
2.17 JFM	(e) participation of local people for restoration of forest
2.18 Pollen grain	(f) Darwin
	(g) distant vision is defective



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29. Choose the odd one and write it:

ADH, Glucose metabolism, Constriction of blood vessels, Reabsorption of water in renal tubules.



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30. Write the function of Schwann cell.



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31. A pair of related terms is given below on the basis of the relationship in the first pair.

Write the suitable word in the gap of second pair.

Prophase: Dehydration of Cytoplasm:___:

Rehydration of Cytoplasm:



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32. Why male is called heterogametic sex?



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33. Which type of chromosome in human carries gene responsible for colour blindness?



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34. Mention on physiological feature of Sundari plant to deal with the strong salinity of water,.



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35. Among the following four terms one include the three. Find it out and write it.

Anabaena, Azotobacter, Rhizobium, Biological Nitrogen fixation.



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36. Which type of conservation practice promotes sustainable economic development and allows education and experimentation by scientists?



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37. Write the word diagram of nervous pathway of the way batsman playing the cricket ball.



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38. State the effect of sympathetic and parasympathetic nervous system with respect to influence on Heart Rate.



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39. Write the influence of Auxin on plant growth.



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40. Write two difference between Cornea and Retina on the following point

Location



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41. Write two difference between Cornea and Retina on the following point

Location



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42. What is the significance of Crossing Over in meiotic cell division?



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43. Distinguish between autosomes and sex-chromosomes of human based on nature and number.



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44. State four changes which occur during anaphase of cell division.



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45. In case of incomplete dominance what is the phenotypic and genotypic ratio of F_2 generation and how it is resulted?



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46. With the help of a cross show how the sex of the child is determined in human being.



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47. Show with the help of cross how haemophilia is inherited.



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48. Why an organ becomes vestigial in man-
Illustrate with example.



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49. Mention about behavioural adaptations
for problem solving in chimpanzees.



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50. Write in sequence the names of four main fossils ancestors during the course of evolution of the horse with major changes in their locomotory organ,



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51. Mention two damages as a result of greenhouse effect resulting from air pollution.



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52. State the principle and prospect of Cryopreservation.



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53. Write the major topics regarding biodiversity documented in Peoples Biodiversity Register(PBR).



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54. Propose two conservation measures that could be taken to increase the number of lions in Gir forest.



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55. Draw a neat diagram of reflex arc and label the following parts:

Receptor, Sensory nerve, Nerve centre, Motor nerve.



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56. Draw a neat diagram of the metaphase stage of animal cell division and label the following parts: Chromosome, Spindle fibre, Pole with astral rays, Equatorial plate.



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57. Write two features of metaphase of mitosis of a plant cell division



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58. What is the relationship between chromosome, DNA and gene?



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59. Distinguish between euchromatin and heterochromatin on the basis of structure and function.



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60. With the help of checker board show the type of offsprings that might be produced in a cross between hybrid black guineaping and a pure white guineaping. State the law of Segregation as proposed by Mendel.



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61. Mendel performed dihybrid cross with colour and shape of seed of a pea plant. Write the genotype of pea plant with yellow and

round seed produced in F_2 generation of this cross. Mention the Law of Independent Assortment of Mendel.



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62. What do you mean by Natural Selection as proposed by Darwin? Explain why the following two organs are considered as adaptive organ :

Air Sac



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63. What do you mean by Natural Selection as proposed by Darwin? Explain why the following two organs are considered as adaptive organs :

Swimbladder.



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64. 3 difference between sympathetic and parasympathetic nervous system



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65. Which condition do you consider to declare one as biodiversity hotspot. Give two examples of Ex-Situ conservation.



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66. What is "Project Tiger"? State the ecological importance of tiger conservation.



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67. Write the points of causes of Biodiversity depletion. (No need of description)



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68. Write three problems caused by ever increasing human population. Person may suffer from difference diseases due to air pollution-Write the names of one such disease and state one symptom.



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