



BIOLOGY

BOOKS - UNITED BOOK HOUSE

**HOWRAH RABINDRA DESHBANDHU
PAPER**

Exercise

1. Write the answer in complete sentence by choosing the correct answer .

- A. Under the influence of auxin, the xylem tissue length increases with increasing diffusive pressure
- B. Auxin softens the cell wall
- C. Auxin helps in cell division
- D. Auxin increases the length of internode and breaks the dormancy of seed and bud

Answer:



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2. Identify which hormone amount increase in blood in time of anger, fear etc-

A. Oxitocene

B. Adrinaline

C. STH

D. Vesopressin

Answer:



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3. Calculate the number of mix nerve within -
Facial nerve, Vegas nerve, Glossopharyngial
nerve, Optic nerve, Hypoglossla nerve.

A. 2

B. 3

C. 1

D. 4

Answer:



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4. Which of the following organisms reproduce asexually through spore?

A. Spouge, Spirogyra

B. Mucor, Rhizopus

C. Sponge, Hydra

D. Hydra, Planaria

Answer:



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5. Determine which of the following is not a characteristic of karyokinesis-

A. Prophase, Metaphase, Anaphase, Telophase-Driven by these four subphases

B. Lasts for a long time

C. In this way the number of cells increase

D. In this way number of nucleus increases

Answer:



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6. Select which of the following statement is correct regarding self pollination-

A. carrier is not required

B. there is no possibility of the emergence of new traits of the other organism

C. Only happen in single flower

D. Many pollens are wasted

Answer:



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7. Which of the following pair is correct?

- A. BBrr-Black and rough
- B. bbRr-White and rough
- C. BBrr-White and smooth
- D. BBRR-Black and smooth

Answer:



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8. Which of the following word is not related with heredity?

A. Allele

B. Dominant character

C. Micropropegation

D. Genotype

Answer:



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9. Determine when a daughter may become colour blind?

A. IF father a colour blind

B. Only if mother is colour blind

C. Mother is carrier and father is colour blind

D. Mother is carrier but father is norma

Answer:



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10. Determine for which of the following bees do waggle dance-

- A. New bee hive formation
- B. Avoid enemy attacks
- C. Search for food sources
- D. Finding a breeding partner

Answer:



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11. Who proposed the law of use and disuse of organ?

A. Fleming

B. Lamarck

C. Darwin

D. The Vris

Answer:



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12. Which of the following is divergent evolution?

- A. Tendrils of pea and Jhumkolata
- B. Wing of insect and bat
- C. Wing of bird and forelib of whale
- D. Sweet potato and round potato

Answer:



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13. Choose which of the following pair is correct?

- A. SPM-Air pollution
- B. SPM-Water pollution
- C. SPM-Noise pollution
- D. SPM-Soil pollution

Answer:



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14. Identify the source of CO_2 , CH_4 and CFC-

A. Fossil fuel burning, Refrigerator,

Decomposition of organic waste

B. Air conditioner, smoke from thermal

power plant, combustion of fossil fuel

C. Combustion of fossil fuel,

Decomposition of organic waste,

Refrigerator, Air conditioner

D. Refrigerator, Combustion of fossil fuel,

Air conditioner

Answer:



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15. While incubating the shell of egg of fish eating bird break'-Identify its proper cause-

A. Global warming

B. Eutrophication

C. Bio-magnification

D. Nitrification

Answer:



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16. _____ hormone develops apical bud.



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17. From the _____ part of DNA, RNA is not synthesized.



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18. pea Seed colour __ is a recessive character.



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19. example of self replicating nucleoprotein.



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20. Infection in the mucous membrane of respiratory tract and dry cough are the symptom of_____.



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21. _____From Brazil is an exotic species which invades here.



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

Coughing is an innate reflex action.



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

Mitosis takes place in, Ovule and Zygosporangium.



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

Pure organisms are always heterozygote.



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

Beneficial mutations trasmits and aggregate genetically.



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

Bacillus mycoides is a nitrifying bacteria.



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

Yellow spot and blind spot are the part of coroid.



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28. Choose the odd one and write it:

Auxin, Gibberellin, Oxytocin, Cytokinin.



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29. Which part of brain controls cardiovascular system and Respiration?



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30. Given below a pair or related terms. Write suitable word in the gap of second pair, following the relationship in the first pair.

Anemophily flower, maize:: Entomophily
flower:_____



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31. What will be the genotype of a pure recessive guineaping produced in dihybrid cross.





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32. Which feature is expressed in the phenotype when in hybrid condition.



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33. When you visit Rajasthan, you see thorn instead of leaf in cactus- Why do you think this has changed?



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34. Among the following four three include the other one. Find out that term and write its. Zoo, Ex-situ conservation, Botanical garden, Cryopreservation.



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35. On arrival in West Bengal, a group of foreign tourists spotted a rhinoceros in a national park, Identify the national park.



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36. Write two difference between hormone and nervous system based on their following activity-Process, Outcome.



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37. Enlist the names and functions of the following bones and bone joints: Humerous, Ulna and Radius, Scapula, Humerous.



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38. The part of human brain associated with controlling body temperature is-



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39. Enlist which parts of the brain control the following function

Combination of function of voluntary muscle



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40. Enlist which parts of the brain control the following function

Regulation of muscle contraction in urinary bladder



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41. Enlist which parts of the brain control the following function

Controlling of Salivation



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42. Seeing the bright light in iron welding factory and entering the dark theater after starting the cinema, how parts of your eyes change— explain.



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43. List what changes in the nucleus during the extended phase of mitosis



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44. name the asexual reproduction process of a know flat worm and a fungus.



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45. Prepare a list of the physical disadvantages that arise in the last phase of human development.



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46. Explain how Mendel perform cross pollination in pea plant in his genetical experiment.



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47. Which chromosome is more relevant in sex determination in human?



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48. Calculate the genotypes of the following phenotypes of F_2 generation in Mendel's dihybrid cross-Hybrid yellow and crinkly, Pure green and crinkly, Pure yellow and round, Hybrid green and round.



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49. Write down the main events of evolution using flow chart



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



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51. Feeling the presence of a fisherman, floatig fish entered the depths of the water-Explain the role of the organ responsible for such adaptation to fish.



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52. Name the animal related with following in-situ conservation- Singalila national forest.



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53. Name the animal related with following in-situ conservation- Sundarban biosphere reserve



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54. Name the animal related with follooiwng
in-situ conservation- Lothian island



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55. Name the animal related with follooiwng
in-situ conservation- Kaziranga national forest.



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56. Disruption of the nitrogen cycle leads to acidification of under ground water, soil and waterbody-Judge the accuracy of the statement.



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57. Establish relation between environmental pollution with disease transmission.



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58. Write the characters of biodiversity hot-spot.



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

Lens, Iris, blind spot, Cornea.



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60. Draw a neat diagram of human eukaryotic chromosome and label of the following parts- Chromatid, Centromere, Telomere, Nucleolar organizer.



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61. Discuss fertilization process and female gamet production in the sexual reproduction of flowering plant. Show with a chart - alternation of generation in fern.



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62. Judge how meiosis maintains existence of species.



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63. Write down the law derived from Mendel's dihybrid cross. Explain with an example how the hereditary transmission of haemophilia occurs.



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64. Explain incomplete dominance in *Mirabilis Jalapa*.



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65. Standing beside a pond ecosystem for a long time and observe it what kinds of life struggle you see?— Write it with example.



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66. Example of the vestigial organs of human.

Discuss two adaptive importance of air sac in pigeon.



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67. Discuss the impact of population growth in the following case- Forest



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68. Discuss the impact of population growth in the following case- Agricultural land



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69. Discuss the impact of population growth in the following case- Sweet water



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70. Discuss the impact of population growth in the following case- Wetland



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71. Discuss the impact of population growth in the following case- Fossil fuel.



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72. Evaluate the role of biodiversity in paper production and textile industry. One of the environmental problems of the Sundarbans is the lack of fresh water-Analyze with example how it endangered biodiversity.



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73. Discuss three in-situ process for conserving biodiversity. Evaluate the

importance of botanical garden in conserving biodiversity.



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74. Judge what in-situ conservation processes should take to balance the numbers and normal development of one horned rhino in its own environment.



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