



BIOLOGY

BOOKS - UNITED BOOK HOUSE

K.U.EXPERIMENTAL HIGH SCHOOL

PAPER

Exercise

1. Identify the plant hormone that regulates the growth of the lateral buds-

A. Auxin

B. Cytokinin

C. Gibberellin

D. Thyroxine

Answer:



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2. Choose the correct hormone that increases the blood sugar level and its known as hyperglycemic hormone-

A. Insulin

B. Glucagon

C. ACTH

D. Oestrogen

Answer:



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3. Determine the number of nerves that make up the peripheral nervous system of humans-

A. 12 pairs of nerve

B. 43 pairs of nerve

C. 31 pairs of nerve

D. 10 pairs of nerve

Answer:



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4. Select the correct feature of chromosome from the following-

A. Chromosome are distinct and clearly visible at prophase

B. Daughter chromosomes move to opposites poles by contraction of spindle fibres at metaphase

C. Nuclear membrane and nucleolus disappear at telophase

D. In S-phase DNA replication and duplication of chromosome occur.

Answer:



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5. Identify the organism that reproduces asexually by multiple fission-

A. Plasmodium

B. Spirogyra

C. Hydra

D. Planaria

Answer:



6. Select from the following the process of rapid raising of new plants from small plant tissues with the help of tissue culture technique is-

- A. hybridisation
- B. micropropagation
- C. grafting
- D. cutting

Answer:



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7. Identity the correct statement regarding pattern of inheritance from the following-

A. The phenotypic ratio of incomplete

dominance is 1 : 2 : 1 instead of 3:1

B. The genotypic ratio of dihybrid cross on

a pea plant performed by Mendel is

9:3:3:1

C. In Pea plant green coloured seed is dominant over the yellow coloured seed

D. Thalassaemia is a sex linked genetic disorder

Answer:



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8. Determine from the following the phenomenon that does not following the Law of Segregation-

A. crossing over

B. linkage

C. incomplete dominance

D. dominant-recessive interaction

Answer:



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

A. 50% daughters and 50% sons are haemophilic

B. 100% sons & 450% daughters haemophilic

C. 100% sons & 100% daughter haemophilic

D. 50% sons & 100% daughters are
haemophilic

Answer:



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10. Select from the following the stage of evolution of horse where the third digit becomes bigger and is hoofed-

A. Eohippus

B. Mesohippus

C. Equus

D. Merychippus

Answer:



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11. Choose the organ that absorbs gas from swimbladder of bony fish-

A. Retia mirabilia

B. Red gland

C. Salt gland

D. Gills

Answer:



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12. Determine from the following the percentage of extension of RBC that occurs in diluted condition of blood in camel-

A. 2.4

B. 1.5

C. 0.8

D. 1.2

Answer:



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13. Select from the following the process of Nitrification-

A. Nitrogen \rightarrow Ammonia \rightarrow Amino acid

B. Ammonia \rightarrow Amino acid \rightarrow Nitrogen

C. Ammonia \rightarrow Nitrite \rightarrow Nitrate

D. Nitrate \rightarrow Nitrite \rightarrow Nitrogen

Answer:



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14. Select the correct statement with relation to asthma from the following-

A. Asthma is not a chronic lung disease

B. Athama is caused by entry of allergen or foreign particles in the body

C. The most important cause of acute asthma is water pollution

D. Chewing of tobacco can cause asthma

Answer:



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15. Identify from the following an example of ex-situ conservation

A. Biosphere Reserve

B. Sanctuary

C. National park

D. Botanical garden

Answer:



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16. _____ locomotes by sol-gel conversion process of protoplast.



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17. In _ phase of human development the individual attains high growth rate, increase secretion of sex-hormone occurs, secondary sex characters get expressed in both sex,



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18. Show dihybrid cross between TTRR and ttrr.

Find phenotypic ratio



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19. Same structures are modified differently in different organisms due to different adaptation is called ___ evolution.



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20. Very small particles of dust, smoke, microbes, soil, etc, that are present in air and causes air pollution are called ____



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21. You often read of tigerskin being recovered from ___ in newspaper and you can consider this as a major cause of loss of biodiversity.



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22. Decide whether the following statements are True or False

LH stimulates the ovulation process in female ovary.



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23. Decide whether the following statements are True or False

Crossing over occurs between the non-sister chromatids of homologous chromosome during meiotic cell division.



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24. Decide whether the following statements are True or False

Thalassemia is a form of inherited autosomal dominant blood disorder.



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25. Decide whether the following statements are True or False

Variation takes place due to struggle for existence.



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26. Decide whether the following statements are True or False

Eutrophication is caused due to air pollution.



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27. How will offsprings be affected if carrier female is married with X-linked diseased male



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28. Different words are being formed by arranging the letters of the word "SUCCESS" all the words obtained by written in the form of a dictionary

The number of words in which no two C's and no two S's are together is





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29. Choose the odd one write it: Lung cancer, Goitre, Diabetes, Dwarfism



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30. Mention one function of spinal cord.



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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:

Mitosis: Spindle formation: __: without spindle formation.



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32. Mention the genotypes of green smooth seeded bearing pea plants.





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33. A patient appears at a doctor's chamber with symptoms like anaemia, deformed bones, enlargement of spleen, tiredness and jaundice. Identify the genetic disease the patient is suffering from.



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34. State one example of behavioural adaptive feature of chimpanzee.



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35. Name two biosphere reserve one in West Bengal & other in rest of India.



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36. Your grandmother is suffering from high pressure. Determine which plant can be used to make medicine for such disease.



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37. Discuss the movement of variation in *Mimosa pudica*.



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38. Distinguish between the endocrine & exocrine gland the basis of following feature.
presence of duct



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39. Distinguish between the endocrine & exocrine gland the basis of following feature.
nature of substance reband.



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40. State the role of thyroxine hormones in control in BMR.



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41. Light from outside has to pass through your eyeball to fall upon the retina. Mention the media in between that acts as refractive media to the light.



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42. Compare the haploid and diploid cell with respect to the following points-

Occurance



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43. Compare the haploid and diploid cell with respect to the following points-

Chromosome number.



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44. You have a plant that doesn't produce seeds. Explain any two methods of artificial vegetative reproduction of this plant to propagate.



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45. Write down three advantages of cross pollination.



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46. Compare pure and hybrid character with one example of each.



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47. Explain two common reasons behind Mendel's success.



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48. Discuss how adaptation is related to evolution.



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49. Briefly explain two features of comparative embryology of vertebrates as evidence of evolution.



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50. Explain the adaptation process of camel in desert due to shape of RBC?



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51. 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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52. You have joined JFM. Mention your role in conserving biodiversity.



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53. Explain why you should consider Corbett National Park as example in In-situ conservation.



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54. Name a nitrogenous compound that acts as potent green house gas & explain how human activities cause increase of this gas in atmosphere.



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55. Name two exotic plant species of India and how they are posing threat on Indian species.



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

telomere, satellite, secondary constriction, chromatid



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57. Give a neat diagram of a reflex arc and label the following structures:

receptor , effector, motor neuron, sensory neuron.



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58. Write any two characteristics of anemophilous flower.



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59. Mention two important events of anaphase of mitosis in animal cell. Explain how growth and development are different from each other.



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60. Explain the role of father in sex determination in human. write down the cause of thalassemia.



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61. Explain why haemophilia is found more in males than in females with the help of a cross. How can genetic counselling be helpful in making the world free of genetic diseases.



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62. Write four important features modified in the evolution of horse.



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63. Sundari plant can thrive well in Sundarban while pine tree cannot. Explain the statement in the life of adaption of Sundari plants.



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64. Write down the causes of the reduction of biodiversity. You live in an area where there are many factories coming up. Explain why you are Having a lot of breating and digestive problems in your area recently.



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65. Write down three environmental problems of Sundarban. Mention the steps taken for conservation of tiger in India.



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66. Draw a word diagram of nitrogen cycle. Write down the importance of this cycle.



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67. Name two conservational site of Red-Panda.



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