



BIOLOGY

BOOKS - UNITED BOOK HOUSE

MODEL PAPER 2017

Exercise

1. Some flowers open after sunrise and close after sunset. This is-

- A. photonasty
- B. Seismonasty
- C. Chemonasty
- D. Thermonasty

Answer:



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2. A person affected with Diabetes Millitus is unable to secrete which of the following hormone in adequate quantity.

A. Adrenaline

B. Insuline

C. Thyroxine

D. Testosterone

Answer:



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

A. Thalamus

B. Cerebellum

C. Hypothalamus

D. Medulla Oblongata.

Answer:



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4. You have observed the separation of two sister chromatids at one stage of mitotic cell division.

A. Prophase

B. Telophase

C. Anaphase

D. Metaphase.

Answer:



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5. Which of the following pair is correct-

A. 1.Budding-Yeast

B. 2.Fragmentation-Earthworm

C. 3.Spore formation-Amoeba

D. 4.Regeneration-Dryopteris

Answer:



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6. Which phase of human development is associated with the maturity of reproductive organ and reproductive gland-

A. childhood

B. Adolescence

C. Late Adulthood

D. Infancy

Answer:



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7. Which of the following traits in pea plant is recessive-



8. How many types of gametes are formed from pea plant having genotype $YyRr$ -

A. 1

B. 4

C. 2

D. 3

Answer:



9. Calculate the probable change of being a haemophilic female child if a haemophilic male is married to a normal female

A. 0.75

B. 0.5

C. 1

D. 0

Answer:



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10. The gas which was absent in the environment during the origin of life is

A. Hydrogen

B. Oxygen

C. Methane

D. Ammonia

Answer:



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11. The feature of anaigous organ is

- A. Different in origin and functions are also different
- B. Different in origin but functins are same
- C. Indicates divergent evolution
- D. Identical in origin and structure.

Answer:



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

- A. Red-gland
- B. Anterior chamber
- C. Gastric gland
- D. Retia mirabilia

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. Dentrification

D. Ammonification

Answer:



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14. One endangered species of the Eastern Himalayas biodiversity hotspot is-

A. Lion tailed macaque

B. Orangutan

C. Red Panda

D. Nilgiri tahr.

Answer:



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15. The diseases associated with air pollution are-

- A. Diarrhoea, Typhod, Hepatitis
- B. Hepatitis, Bronchitis, Deafness
- C. Bronchitis, Asthama, Lung Cancer
- D. Lung cancer, pilio Malaria

Answer:



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16. The process of necessary adjustment of focal length of the lens in human eye is called_____.



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17. Adenine is a _____type of nitrogenous base.



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18. _____is a disease created by sex-linked gene.



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19. The earliest ancestor in the evolution of horse is _____.



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20. An inflammable green house gas generated from paddy field is _____.



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21. _____ is a biosphere reserve located in West Bengal.



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22. Gibberellin hormone prevents immature shedding of leaf of plants.



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23. Decide whether the following statement is true or false. Ovum is only produced as a result of mitosis.



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24. Self-pollination or cross-pollination can be exercised in flowers of pea plant according to the need.



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25. Discuss the following events as mentioned in the evolutionary theory of Darwin:

Natural selection

Adaptation is the change of shape, physiological functions and behaviour of organism'-Justify the statement with the help of any two examples.



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26. Degradable pollutant is responsible for biomagnification.



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27. Flagella is the locomotory organ of paramoecium.



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28. Choose the odd one and write it: TSH, ACTH, GTH, CSF.



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29. Write one function of myelin sheath.



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30. 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: Disappearance of nuclear
membrane and nucleous :: _____:

Reappearance of nuclear membrane and
nucleous.



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31. Give an example of a variation inherited in man along the generation.



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32. Which type of chromosome in human carries gene responsible for the disease thalassemia?



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33. Mention one morphological adaptation of cactus to prevent transpiration.



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34. Among the following four terms one includes the other three. Find out that term and write it:

Embryo, Meristematic tissue. Seed, Cryopreservation.



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35. Write the name of the cause of the latest concern regarding the environment of Sundarbans.



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36. Write two differences between tropic and nastic movement.



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37. Write two roles of GTH in the secretion of hormone from the reproductive glands of human body.



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38. Categorize the following actions as natural or inherited reflex action.

Willingness of infants for breast-feeding



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39. Categorize the following actions as natural or inherited reflex action.

Cycling



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40. Categorize the following actions as natural or inherited reflex action.

Sneezing



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41. Categorize the following actions as natural or inherited reflex action.

Catching ball by wicket keeper with swiftness



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42. Write the parts of central nervous system and peripheral nervous system.



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43. Write two importance of cell cycle.



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44. Distinguish between DNA and RNA based on the following features:

Pyrimidine base



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45. Distinguish between DNA and RNA based on the following features:

5-C sugar



46. Which agents perform the function of pollination in the following plants: paddy, Hydrilla, Shimul, Mango.

A. Paddy

B. Hydrilla

C. Shimul

D. Mango

Answer:



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47. State with example how dominant trait is expressed in the experiment of hybridization.



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48. What would be the ratio of phenotype and genotype of F_2 generation in monohybrid experiment in case of incomplete dominance?



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49. Show with the help of a cross, how colour blindness is inherited.



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50. Write the name of reactants used and one organic compound formed in the experiment of Miller and Urey in connection with chemical origin of life.



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



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52. How mangrove plants try to eliminate the load of excess salts?



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53. Bacteria which break down the dead organisms of the soil into nitrogen compounds are termed



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54. Mention two damages as a result of acid rain.



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55. Give four examples of damages of biodiversity as a result of global warming.



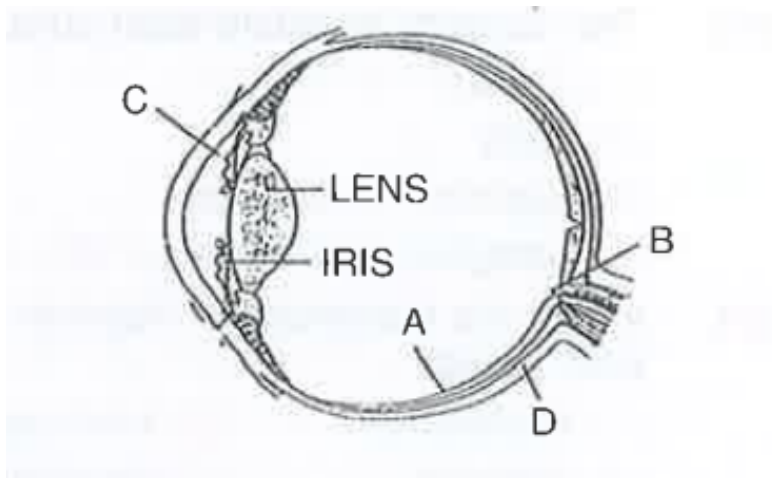
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56. Write the major topics regarding biodiversity documented in Peoples Biodiversity Register(PBR).



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57. Parts A, B, C and D of the human eye are shown in the diagram. Select the option which gives correct identification along with its functions/ characteristics



A. cornea

B. Lens

C. Vitreous humor

D. Retina

Answer:



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58. Draw a neat diagram of metaphase of mitosis of a plant cell or an animal cell division and label the following parts- 1.chromosome
2.spindle fibre 3.polar region 4.Centromere.

A. 1.chromosome

B. 2.spindle fibre

C. 3.polar region

D. 4.Centromere.

Answer:



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



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60. Distinguish between euchromatin and heterochromatin on the following aspect:
Activity.



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61. State what happens in the following phase of sexual reproduction of flowering plants :
Production of gamete or reproductive cell



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62. State what happens in the following phase of sexual reproduction of flowering plants :

Fertilization



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63. State what happens in the following phase of sexual reproduction of flowering plants :

Fertilization



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64. 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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65. Mention the symptoms of thalassemia disease.



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66. . How a worker bee of beehives communicates with other worker bees regarding source and location of food?



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67. With the help of arrow signs, show the major evolutionary events as occurred gradually after the origin of life.



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68. What are causes of asthma?



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69. State two causes of depletion of biodiversity with proper example.



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70. Make your opinion based on your experience how the sources of fresh water become polluted.



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71. Which conditions do you consider to declare one area out of two as biodiversity hotspot? Give two examples of ex-situ conservation.



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