



BIOLOGY

BOOKS - JNAN PUBLICATION

SAMPLE PAPER 2017

Exercise

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

A. 1. Photonasty

B. 2. Seismonasty

C. 3. Chemonasty

D. 4. 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. 1.Adrenaline

B. 2.Insulin

C. 3.Thyroxine

D. 4.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. 1.Prophase

B. 2.Telophase

C. 3.Anaphase

D. 4.Metaphase

Answer:



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5. Which of the following pair is correct-

A. Budding-Yeast

B. Fragmentation-Earthworm

C. Spore formation-Amoeba

D. 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. 1.Childhood

B. 2.Adolescence

C. 3.Late Adulthood

D. 4.Infancy

Answer:



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

A. 1.Wrinkled seed

B. 2.Yellow coloured seed

C. 3.Purple coloured flower

D. 4.Axial flower

Answer:



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



9. The probability of haemophilic girl children born to a haemophilia carrier mother and normal father is-

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 anaiaogous organ is

A. Defferent in origin and functions are also different

B. Different in origin but functions are same

C. Indicats divergent evolution

D. Identical in origin but structure.

Answer:



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12. the probability of haemophilic male children born to a haemophilia carrier mother and a normal father



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

A. Lion tailed macaque

B. Orangutan

C. Red Panda

D. Nilgiri thar

Answer:



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15. The diseases associated with air pollution are-

A. 1.Diarrhea,Typhoid,Hepatitis

B. 2.Hepatitis,Bronchitis,Deafness

C. 3.Bronchitis,Asthama,Lung Cancer.

D. 4.Lung Cancer,Polio,Malaria

Answer:



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Example

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



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2. Adenine is a _____type of nitrogenous base.



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3. _____ is a disease created by sex-linked gene.



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



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5. A flammable greenhouse gas produced from paddy field is _____.



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



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7. state 2 functions of plant stem



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8. Decide whether the following statement is true or false. Ovum is only produced as a

result of mitosis.



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



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10. what is importance of vitamin A



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11. Degradable pollutant is responsible for biomagnification.



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12. Flagella is the locomotory organ of paramecium.



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

A. TSH

B. ACTH

C. GTH

D. CSF

Answer:



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14. Write one function of myelin sheath.



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15. Give an example of a variation found among healthy persons which is transmitted through generations.



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16. Which type of chromosome in human carries gene responsible for the disease

thalassemia?



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



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18. 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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19. Write the name of the cause of the latest concern regarding the environment of Sundarbans.



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20. Write two differences between tropic and nastic movement.



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21. From where GTH are secreted? State the functions of the same.



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22. potassium deficiency causes what



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



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24. Write two importance of cell cycle.



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25. Distinguish between DNA and RNA based on the following features: Pyrimidine base, C-2 sugar



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



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27. probability of haemophilic female children born to normal mother and a haemophilic father



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28. 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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29. What is Colour blindness?



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30. name the reactants and produced organic compounds that forms in Miller & Urey's experiment.



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



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



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33. Write names of two micro organisms participating in the process of biological nitrogen fixation.



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



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35. State the significance of Global Warming. Describe briefly the ill effects of water pollution in human body.



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



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



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38. what is asexual reproduction



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39. 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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40. Mention the symptoms of thalassemia disease. In many families mothers are labeled as responsible for the birth of daughter child. Demonstrate with the help of a cross that this belief is not justified.



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41. Mention why flipper of whales and wings of birds are considered as homologous organ. How a worker bee of a beehive communication

with other worker bees regarding source and location of food.



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



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43. What are the causes and symptoms of Asthma? What are the roles of Joint Forest Management in the conservation of biodiversity?



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44. Describe the reasons behind the loss of biodiversity.



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45. Propose two conservation measures that could be taken to increase the number of Indian one-horned rhino. Make your opinion based on your experiences how the sources of fresh water became polluted.



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