



BIOLOGY

BOOKS - SARAS PUBLICATION

GOVT. MODEL SOLVED QUESTION PAPER 2019-20 (2)

Exercise

1. Which one of the following statements is not true regarding sporopollenin?

- A. Sporopollenin is contributed by both pollen cytoplasm and tapetum
- B. It helps the pollen to withstand against strong acid
- C. Sporopollenin derived from phycobilins
- D. It helps pollen during long period preservation in fossil deposits.

Answer:



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2. If you do dihybrid in *Prism sativum* on the traits of pod shape and plant height. Will you get 9:3:3:1 ratio in F₂?

A. Yes, because they are independently assorting genes

B. No, they are linked genes

C. Yes, because they are situated on different chromosomes

D. No, we cannot do experiments on these two traits.

Answer:



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3. Bt brinjal is produced by using A and is having resistance againsts B?

A. A-E.coli B-Virus

B. A-Virus B-Bacteria

C. A-Agrobacterium B-Bacillus

D. A-Agrobacterium B-Lepidopteron

Answer:



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4. Which one of the following statements is true regarding IPR?

A. The discoverer has the full rights on his/her property

B. IPR- includes only the process of the product not trade secret

C. IPR is not protected by laws framed by the country

D. The discoverer can use his discovery for his own company but cannot sell it to others.

Answer:



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5. Which one of the following is a biopesticide?

A. Azolla

B. Rhizobium

C. Beauveria

D. Hevea

Answer:



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6. Which one of the following is an incorrect pair?

A. Turmeric-Erode

B. Cardamom-Queen of species

C. Rubber - Kerala

D. Banana-National fruit of India

Answer:



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7. Which one of the following is highly effective against jaundice?

A. Nilaembu

B. Opium poppy

C. Marijuana

D. Phyllanthus

Answer:



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8. Molecular farming plants are different from natural medicinal plants. How?



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9. Draw the diagram showing altitudinal zonation of vegetation.



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10. Differentiate Rhizobium from Azolla as bio-fertilizers.



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11. Define germplasm collection.



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12. Write the uses of coffee.



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13. Differentiate heterostyly from herkogamy.



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14. Explain the role of genes in the formation of purple colour in the flowers of *Pisum sativum*.



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15. If the upstream process is not done for a fermentation process (bioreactor), what would happen to the product?



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16. List out the ethical issues of genomic research.



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17. If crow is absent in an ecosystem, What would happen?



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18. A reproduction without the involvement of male and female gametes is called apomixis.

Give an outline of this method.



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19. Explain how translocation chromosomal aberration is different from crossing over?



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20. Topography influences the climate of an area-Discuss.



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21. Clouds, dusts and humid nights are warmer than clear dust free dry nights. Discuss the global warming.



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22. Plastogamy means?

A. Mononucleated parent divides into two

Mononucleated individuals

B. Multinucleated parent divides into two

Mononucleated individuals

C. Multinucleated parent divides into many

Mononucleated individuals

D. Multinucleated parent divides into many

Mononucleated daughter individuals

Answer:



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23. Before coming out of nucleus , in RNA is added (A) as capping (B) as tailing

A. A-ATP, B-ADP

B. A_ Methyl guanine triphosphate, B-adenine residue

C. A-diadenylate, B-guanosine residue

D. A-ethyl methane triphosphate, B-methyl
guanosine residue

Answer:



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24. Among the non-infections disease, which is
the major cause for death?

A. Heart attack

B. Stroke

C. Arthritis

D. Cancer

Answer:



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25. Which of the following is not true regarding antibiotics?

A. Penicillin is a fungicide antibiotics

B. Tetracycline is a broad spectrum antibiotics

C. Streptomycin is broad spectrum antibiotics

D. Chlorotetracycline is obtained from *Streptomyces aureofaciens*

Answer:



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26. Which technique can be used to amplify the smallest DNA?

A. PCR technique

B. NMR technique

C. Tissue cloning technique

D. Plasmaphoresis technique

Answer:



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27. Find out the wrong pair.

A. Indian desert-Gujarat

B. Trans Himalayan-Lahala spiti

C. Western ghats- Andrrapradeh

D. North- East India-Indo Malyam bio-
geographical region

Answer:



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28. Assertion (A) : Forest act as oxygen sinks and heart of the planet

Reason (R): Forest animals consume lot of oxygen for their respiration .

A. (A) is wrong, (R) is correct

B. (A) is correct, (R) is wrong

C. (A) and (R) is correct

D. (A) and (R) is wrong

Answer:



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29. Zygote is not formed during the conjugation of Paramecia, but we call it as sexual reproduction why?



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30. Differentiate ZIFT from GIFT



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31. What is chemical evolution?



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32. What is the use of methanobacterium?



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33. Extinction of a keystone species led to loss of biodiversity. Justify.



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34. Meiosis cell division does not take place during the gametes formation of drone bee.

Give reason.



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35. What is meant by ribozyme?



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36. What is the evolutionary significance of Archaeopteryx?



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37. Briefly explain the different measures to reduce noise pollution.



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38. A diabetic patient wants to have a single time treatment and permanent cure for diabetes. It is possible? If so explain.



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39. Explain the role of hormones in the maintenance of human male fertility.



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40. DNA is the genetic material, but it evolved from RNA. Justify.



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41. Suggest methods of maintenance of personal and public hygiene.



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42. Analyse the interactions of two species population.



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