



BIOLOGY

BOOKS - SARAS PUBLICATION

**GOVT. MODEL SOLVED QUESTION
PAPER 2019-20 (3)**

Exercise

1. Continuous variation is due to?

A. Effect of Polygenes

B. Effect of environment

C. Effect of polygenes and environment

D. Effect of one or more genes

Answer:



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2. When red eyed female *Drosophila* is crossed with white eyed male, the F₂ offspring would be.

- A. Females are with white eye and males are with red eye
- B. Male are with red ey an females are with yellow eye
- C. Both males and female are with red eye
- D. Both males and females are with white eye.

Answer:



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3. How can we reverse the sterility of F1 hybrid?

A. Genetic Engineering

B. Protoplasmic fusion

C. Induced mutation

D. Induced chromosomal aberratio

Answer:



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4. In biosensors Green Fluorescent protein is used which is isolated from A and spliced with B

A. A-Chlamydomonas, B-E.coli

B. A-Gelidium, B-Bacillus subtilis

C. A-Aequorea victoria B- Arabidopsis thaliana

D. A- Asparagus B-Acacia melanoxylon

Answer:



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5. Which one of the following is not a carbon sequestration method?

A. Forest conservation and soil conservation

B. Carbon foot print

C. Biochar

D. Increasing the number of animals

Answer:



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6. The disadvantage of pureline selection is

A. It is difficult to distinguish between hereditary variation from environment variation

B. New genotype are never created so they are less stable to environmental variation

C. The genotype is unchanged for a long period of time

D. The plant show more heterozygosity

Answer:



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7. Assertion (A): Rice is the staple food for most of the people in the world. Reason(R): It is easily digestible and calorie rich food.

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

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

C. (A) and (R) is correct, but (R) does not
explain (A)

D. (A) and (R) is correct, but (R) explain (A)

Answer:



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8. What are embryoids?



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9. Differentiate species ecology from community ecology.



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10. State the ten percent law.



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11. How to do test for homozygosity of a trait in plants?



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12. Write the medical uses of Holy basil.



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13. How does pollen tube grow through a solid style?



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14. Draw the flow chart for heterozygous tall x homozygous dwarf *Pisum sativum* plants.



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15. Draw the diagram showing four strand double cross over.



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16. What is the naming procedure for restriction endonuclease? Give an example.



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17. Of the total sunlight, only 2-10% of the solar energy is used by green plants for photosynthesis. Explain why?



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18. Enumerate the characteristic features of anemophilous plants.



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19. Plasmid is a good vector in genetic engineering. Discuss.



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20. Explain the role of wind as a vital ecological factor.



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21. Do you believe that geographic information system will conserve environment? If so write its methods and importance.



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22. Human beings are unisexual animals, the type of syngamy in human beings is

A. Autogamy

B. Exogamy

C. Hologamy

D. Paedogamy

Answer:



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23. Match the following and find the correct answer.

A. Gametogenesis → fertilization →

blastocyst → gastrulation → organo-

genesis → parturition

B. Gametogenesis → cleavage →

gastrulation → blastocyst

→ or $gano \geq \neq$ $sisrar$ parturition

C. Gametogenesis → fertilization →

blastocyst → cleavage → gastrulation

→ parturition → organogenesis

D. Gametogenesis → fertilization →

cleavage → organogenesis →

blastocyst → gastrulation →

parturition

Answer:



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24. Which one of the following is not true regarding cervical cancer?

- A. Primary prevention begins with HPV vaccination
- B. Avoiding tobacco usage
- C. Preventing early marriage
- D. Practising polygamy

Answer:



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25. Find out the incorrect pair.

A. Cheese -Lactococcus

B. Curd -Sacharomyces cerevisiae

C. Idli - Leuconostoc mesenteroids

D. Bread - Yeast

Answer:



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26. Insulin molecules is made of two polypeptide chains. The chain A has (i) amino acids B chain has (ii) amino acids?

A. i.26 ii.27

B. i.22 ii.29

C. i.21 ii.30

D. i.20 ii. 31

Answer:



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27. Periyar wild life sanctuary in Kerala is famous for

- A. Indian Tiger and Asiatic elephant
- B. Indian Lion and Indian Elephant
- C. Spiny an eater and scaley ant eater
- D. Anaconda snake and puthon

Answer:



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28. Who is honoure as Forest man of India?

A. Sunderlal Bahuguna

B. Jadao payeng

C. Amrinder singh

D. M.S. Swaminathan

Answer:



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29. Enumerate the causes for male infertility.



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30. What is known as RNA world?



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31. Differentiate relative dating from absolute dating.



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32. Define 'bio reactor'.



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33. List out the fauna of Trans Himalayan region.



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34. Which is referred to as biomagnification?



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35. Draw a gemmule and label any 2 parts.



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36. Explain the penetration mechanism of a sperm into an egg.



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37. What is the role of connecting links in evolution?



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38. Differentiate oligopotency from unipotency.



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39. HGP is useful in tracing human history.

How?



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40. Explain gene switch on and off mechanism in E.coil. Sex linked inheritable diseases mostly affects men. Explain it with an ex-ample.



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41. Explain gene switch on and off mechanism in E.coil. Sex linked inheritable diseases mostly affects men. Explain it with an ex-ample.



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42. AIDS is not disease but it facilitates the attack by other organisms. Explain why?



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43. Explain the properties of pedosphere.



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