



BIOLOGY

BOOKS - SARAS PUBLICATION

QUESTION PAPER MARCH 2020 (1)

Exercise

1. Virus free plants are developed from

A. Cell suspension culture

B. Organ culture

C. Meristem culture

D. Protoplast culture

Answer:



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2. Some of the major species cultivated in Agroforestry for commercial use:

A. Erythrina, Albizzia

B. Malaivembu, Kadambu

C. Acacia, Azadirachta indica

D. Sesbania, Acacia

Answer:



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3. If a homozygous red flowered plant is crossed with a homozygous white flowered plant then the following will be:

- A. All red flowered
- B. Half white flowered
- C. Half red flowered
- D. All white flowered

Answer:



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4. Match the following :

1. Stenobathic	(i) Salinity
2. Stenoecious	(ii) Depth of water/habitat
3. Stenohaline	(iii) Food
4. Stenophagic	(iv) Habitat selection

A. (1)-(iv), (2)-(i), (3)-(iii), (4)-(ii)

B. (1)-(iii), (2)-(i), (3)-(ii), (4)-(iv)

C. (1)-(ii), (2)-(i), (3)-(iv), (4)-(iii)

D. (1)-(ii), (2)-(iv), (3)-(i), (4)-(iii)

Answer:



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5. First cell of male gametophyte in angiosperm is

A. Primary endosperm

B. Microspore

C. Megaspore

D. Nucleus

Answer:



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6. Which is frequently used as reporter of expression?

A. GMF

B. Circular protein

C. GEP

D. PLA

Answer:



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7. The Ozone layer of troposphere is called:

A. Middle Ozone

B. Ozone Shield

C. Bad Ozone

D. Good Ozone

Answer:



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8. Name the plant which is pest resistant and saline tolerant:

A. Sonalika

B. Triticale

C. Raphanobrassica

D. Atomica-2

Answer:



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9. Define Cybrid.



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10. Write any four uses of Seedball.



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11. The objectives of clean development mechanism are



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12. Write a note on organic farming.



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13. Write the BIOanical name and family of Nilavembu. Write any one of its uses.



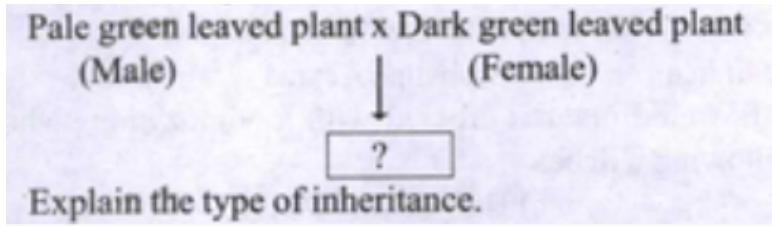
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14. Name the enzymes involved in genetic engineering.



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15. In 4 o' clock plant



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16. What is p^{BR322}



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17. Green house gases cause



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18. Give an account on cryopreservation.



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19. Write the three differences between Habitat and Niche.



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20. Explain the types of entry of pollen tube into the ovule.



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21. What is gene mapping? Write its uses.



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22. Ecosystem



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23. Ramu and Somu are farmers. Ramu cultivated the crops by self fertilization method. Somu cultivated the crops from mixed population.

Who will get new variety?



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24. Ramu and Somu are farmers. Ramu cultivated the crops by self fertilization

method. Some cultivated the crops from mixed population.

Write the advantages and disadvantages of their selection.



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25. Match the following :

- | | |
|--------------------------|----------------------|
| 1. Copper releasing IUD | (i) LNG-20 |
| 2. Hormone releasing IUD | (ii) Lippes loop IUD |
| 3. Non-medicated IUD | (iii) Saheli |
| 4. Mini pills | (iv) Multiload-375 |

A. (1)-(iv), (2)-(i), (3)-(ii), (4)-(iii)

B. (1)-(iv), (2)-(ii), (3)-(i), (4)-(iii)

C. (1)-(iv), (2)-(i), (3)-(iii), (4)-(ii)

D. (1)-(i), (2)-(iv), (3)-(ii), (4)-(iii)

Answer:



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26. *Saccharomyces cerevisiae* is more suitable for the production of recombinant interferons than *E. coli*. The reason is.

- A. E.coli cannot be used in biofermentor
- B. E.coli does not have suitable plasmid for the production of proteins.
- C. E.coli does not have the machinery for glycosylation of proteins
- D. E.coli is not easily available for the production of proteins

Answer:



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27. Which one of the following is true to gastrulation?

A. Formation of multicellular structure from zygote

B. Formation of specific organs from germ layers

C. Formation of three germ layer embryo from single layer embryo

D. Attachment of blastocyst to the uterine wall

Answer:



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28. Identical twins are produced when the following condition is satisfied:

- A. Two sperms are fertilized one egg
- B. Two sperms are fertilized two eggs
- C. One sperm is fertilizing two eggs
- D. One sperm is fertilizing one egg

Answer:



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29. ELISA is mainly used for

- A. Selecting, plants having desired traits
- B. Detection of mutations
- C. Detection of pathogens
- D. Selecting animals having desired traits

Answer:



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30. Assertion (A): Genetically engineered Bt-cotton is disease resistant type.

Reason (R): Cry-toXII_n produced in the plant has specific activities against free living fungi.

- A. Both (A) and (R) are true, but (R) does not explain (A)
- B. (A) is wrong, (R) is correct
- C. Both (A) and (R) are wrong

D. (A) is true but (R) is wrong

Answer:



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31. Which one of the following are at high risk extinction due to habitat destruction?

A. Echinoderms

B. Mammals

C. Birds

D. Amphibians

Answer:



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32. What is the difference between the sugars of DNA and RNA?

A. One oxygen atom excess in deoxyribose sugars

B. One oxygen atom less in ribose sugars

C. Two oxygen atoms less in ribose sugars

D. One oxygen atom less in deoxyribose
sugars

Answer:



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33. In which day of menstrual cycle ovulation
takes place?



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34. Another name for Down's syndrome.



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35. What are Operons? How many operon groups are present in E.coli?



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36. Point out the differences between active and passive immunity .



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37. Which is referred to as industrial alcohol?

Why?



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38. What is the most important application of human stem cells?



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39. What is "Let - Down" reflex?



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40. Write a note on "Amniocentesis".



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41. Name the hormone secreted by Thymus gland and mention two functions of that hormone.





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42. Write a note on gene banks.



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43. A character present in grandfather goes to grandson through daughter. Draw flowchart for this pattern of Inheritance.



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44. Write about the methodologies of HGP.



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45. Using various resources such as your school library or the internet and discussions with your teacher, trace the evolutionary stages of any one animal, say horse.



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46. Write short notes on:

Population Density



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47. Write short notes on:

Natality and Mortality



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48. Write about the effects of chemicals used in the field of Agriculture.



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