



BIOLOGY

BOOKS - SHARAM PUBLICATION

SOLVED PAPER 1

Exercise

1. The driving force of the ecosystem is :

A. carbohydrates in plants

B. biomass

C. producer

D. solar energy

Answer:



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2. The base of the ovule is known as

A. Hilum

B. Funicle

C. Chalaza

D. Raphe

Answer:



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3. Phenotypic ratio of Monohybrid cross

is _____

A. 1 : 2 : 1

B. 3 : 1

C. 2:1:1

D. 1:1:1

Answer:



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4. Plant cells with cell wall removed is called _____

A. Cybrid

B. Plantlet

C. Protoplast

D.

Answer:



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5. In the vinegar production, _____ is produced in the first step.

A. ethanol

B. methanol

C. glycerol

D. glycol

Answer:



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6. Correct the statements, if necessary, by changing bracketed words only.

The enzyme, amylase used as a (classifying agent).



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7. Correct the statements, if necessary, by changing underlined words only.

Ruminants release carbon bioxide which is a primary pollutant.



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8. Fill in the blanks:

A _____ cross illustrates the principle of independent assortment.





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9. The bonds joining two successive nucleotides of DNA strand are called _____.



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10. Correct the statements, if required

_____ is a modified shoot.



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11. Write a note on outbreeding devices.



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12. Write notes: Incomplete dominance



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13. Write note on

Central dogma of molecular biology



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14. Write note on

Human genome project.



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15. Write note on :

Parasitism.



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16. Write note on :

Microbes in sewage treatment.



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17. Differentiate between

Hydrosere and Xeresere



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18. Differentiate between : Geitonogamy and xenogamy.



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19. Describe the secondary air pollutants and their control measures.



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20. Give the structure of B-DNA molecule.



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21. Describe with suitable diagram the process of double fertilization in angiosperms.



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22. Discuss Mendel's dihybrid cross with checker board.



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23. Which hormone is secreted by placenta ?

A. Growth

B. Insulin

C. Human Chorionic gonadotropin

D. Oxytocin

Answer:



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24. Which is the genotype of Turner's syndrome?

A. XO

B. XXY

C. XYY

D. XXX

Answer:



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25. What is the genetic material of AIDS virus?

A. Double stranded DNA

B. Single stranded DNA

C. Single stranded RNA

D. Double stranded RNA

Answer:



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26. In which syndrome a barr body is absent?



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27. Which term is used for culturing and rearing of silk moth?



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28. Which of the following is the infective stage of the malaria parasite(Plasmodium):



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29. Sex-linked characters are



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30. Fill up the blank

Genetically

engineered

tomato

_____ exhibits a delayed ripening.



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31. The word patient is used in biotechnology to describe the commercial use of transgenic animal ?



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32. Term ejaculation is used for abortion of foetus?



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33. What is a vaccine.?



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34. What is acquired immunity ?



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35. Answer the following :

Write short notes on the following :

In vitro fertilisation



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36. What is golden rice?



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37. What are cloning vectors?



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38. What is biopiracy?



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39. Differentiate between of the following
turners syndrome and Klinefelter's sundrome.



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40. Differentiate between: Exonuclease and
Endonuclease.



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41. Differentiate between of the following

In-vivo gene therapy and Ex- vivo gene therapy.



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42. Down's syndrome.



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43. Describe the reproductive system in human female.





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44. Explain chromosomal theory of sex determination.



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45. What is golden rice?



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46. What are the reasons of drug abuse by the youth?



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47. write note

Fertilisation



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48. Give a note on common cold / Rhinitis.



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