



BIOLOGY

BOOKS - SHARAM PUBLICATION

BIOLOGY AND HUMAN WELFARE (MICROBES IN HUMAN WELFARE)

Exercise

1. Which one is the milk sugar?

A. Lactose

B. galactose

C. glucose

D. sucrose

Answer:



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2. Which one is the milk protein?

A. Renin

B. tanin

C. easein

D. albumin

Answer:



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3. Pencillium notatium produces antibiotic

A. streptomyces

B. chloromycetin

C. nystatin

D. penicillum

Answer:



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4. *Saccharomyces cerevisiae* are capable for_____

A. Lactic acid fermentation

B. alcoholic fermentation

C. Pasturization

D. Sterilization

Answer:



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5. Vinegar is _____ acid

A. Lactic

B. Acetic

C. Citric

D. Formic

Answer:



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

A. Ethanol

B. methanol

C. Lactate

D. Acetate

Answer:



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7. Which enzyme is used in clarifying fruit juices?

A. amylase

B. protease

C. pectinase

D. lipases

Answer:



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8. Which is utilized as meat tenderizer?

A. pectinase

B. protease

C. Lipase

D. amylase

Answer:



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9. Which is the enzyme not used in digestive syrup?

A. amylase

B. Pectinase

C. Protease

D. lipases

Answer:



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10. Write a short note on secondary treatment of sewage.



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11. Which type of bioreactor is used in places receiving high annual hours of day light.

A. percolating filter

B. trickling filter

C. deep-shaft

D. algae-bacterial

Answer:



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12. Which one is a biogas?

A. Oxygen

B. Carbondioxide

C. Methane

D. Hydrogen oxide

Answer:



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13. In which process is biogas not used?

A. cooking

B. lighting

C. biofertilizer

D. Internal combustion

Answer:



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14. Bt gene has _____ property



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15. Rhizobium is _____ bacterium.



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16. Which one is not heterotrophic nitrogen fixer

- A. Rhizobium
- B. Anabaena
- C. Azospirillum
- D. Acetobacter

Answer:



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17. Which nitrogen fixing bacteria does association with root system of legumes?



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18. Removal of large pieces of floating debris .
oily substances , etc , during sewage
treatment called

A. Primary treatment

B. Secondary treatment

C. Final treatment

D. Amplification

Answer:



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19. Most commonly used substance for industrial production of beer is

A. Barley

B. Wheat

C. Corn

D. Sugarcane molasses

Answer:



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20. The vitamin whose content increases following the conversion of milk into curd by lactic acid bacteria is

A. Vitamin C

B. Vitamin D

C. Vitamin B_{12}

D. Vitamin E

Answer:



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21. BOD of waste water is estimated by measuring the amount of :

A. total organic matter

B. biodegradable organic matter

C. Oxygen evolution

D. Oxygen consumption

Answer:



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22. Correct the statements by changing underlined words only :

Majority of algae, funig, bacteria,

Cyanobacteria and infectious agents like insects are included among microbes.



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23. Correct the statements by changing bracketed words only :

(Lactobacillus) causes alcoholic fermentation



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24. Correct the statements by changing bracketed words only :

Production lactic acid causes (solubilization) of milk protein casein.



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25. Correct the statements by changing bracketed words only :

(Sterilization) is process in which microorganisms are inactivated.





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26. Correct the statements by changing bracketed words only :

First antibiotic penicillin was extracted from a (bacterium).



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27. Correct the statements by changing underlined words only :

CO_2 is used in brewery.



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28. Correct the statements by changing underlined words only :

CO_2 provides rigidity to dough.



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29. Correct the statements by changing underlined words only :

Methyl alcohol is a preservative.



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30. Correct the statements by changing underlined words only :

Pectinase is used as a digestive agent.



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31. Correct the statements by changing underlined words only :

In primary treatment of sewage, sludge is generated.



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32. Correct the statements by changing underlined words only :

Biomass obtained by treatment of sewage is used in production biopesticides.



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33. Correct the statements by changing underlined words only :

Pectinase is used as a digestive agent.



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34. Correct the statements by changing underlined words only :

In biogas, the amount of CO_2 is nearly 60-70%.



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35. Correct the statements by changing underlined words only :

Methanogenic bacteria can act on organic acid, lactate to form biogas.



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36. Correct the statements by changing underlined words only :

Bt cotton is a hybrid plant.



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37. Correct the statements by changing underlined words only :

Pesticides obtain for living organisms are known as Chemical pesticides.



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38. Correct the statements by changing underlined words only :

Bacillus thuringiensis is a Gram Positive, circula soil bacteria.



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39. Nitrogen fixing bacteria are called phototropic.



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40. Correct the statements by changing underlined words only :

Rhizobium remains symbiotically with root system of cereals.



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41. Correct the statements :

Azotobacter is a symbiotic living nitrogen fixer.



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42. Correct the statements :

Association between fungi and root systems of plants is called mycozoontic association.



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43. Correct the statements :

Anabaena is parasitic nitrogen fixer.



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44. Express in one word only:

What type of nitrogen fixer is Rhizobium?



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45. Express in one word only:

Biologically active products used to boost crop production are called.



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46. Express in one word only:

Nucleic acid component of baculovirus is.



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47. Express in one word only:

What type of genes *Bacillus thuringiensis* has



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48. Express in one word only:

What is the predominant component of biogas?



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49. Express in one word only:

Which gas called to biogas in India?



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50. Express in one word only:

In what type of containers are secondary treatment of sewage water done?



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51. Express in one word only:

Accumulated biomass due to secondary treatment of sewage water is called.



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52. Express in one word only:

Lactic acid fermentation is done by.



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53. Express in one word only:

What is the substrate for alcohol fermentation
?



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54. Express in one word only:

The industry of alcoholic beverage making.



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55. Express in one word only:

The industry of bread making.



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56. Fill in the blanks:

Unicellular fungus, _____ is used in alcoholic beverage production.



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57. Express in one word only:

Secretions of organisms which are selectively toxic called.



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58. Express in one word only:

Milk sugar is called.



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59. Express in one word only:

The process of inactivation of microorganisms.



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60. Express in one word only:

Nitrogen fixing autotrophic bacteria are called.



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61. Express in one word only:

The first bacterial antibiotics is.



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62. Express in one word only:

Which bacteria is known as baker's yeast?



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63. Expand BOD :



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64. Express in one word only:

A free living bacteria that can fix nitrogen in the soil.



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65. Fill in the blanks:

Plants, animals and _____ make the living world.





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66. Fill in the blanks:

Monera and _____ kingdoms belong to microbes.



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67. Fill in the blanks:

Lactic acid fermentation is done by _____.



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68. Fill in the blanks:

The antibiotic, _____ is obtained from *Penicillium notatum*.



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69. Express in one word only:

Secretions of organisms which are selectively toxic called.



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70. Fill in the blanks:

Unicellular fungus, _____ is used in alcoholic beverage production.



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71. Fill in the blanks:

In _____ production, grapes juice is used.



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72. Fill in the blanks:

Enzyme _____ is used as clarifying agent.



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73. Fill in the blanks:-

The internal factors responsible for morphological expression is called _____.



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74. Which type of bioreactor is used in places receiving high annual hours of day light.



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75. Fill in the blanks:

Predominant component of biogas is _____.



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76. Fill in the blanks:

Methanogenic bacteria can degrade _____ to methane or biogas.



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77. Fill in the blanks:

In India, biogas is otherwise called as _____ gas.



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78. Fill in the blanks:

Use of chemical pesticides ins uccessive years leads to its _____ as these are destroyed easily.



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79. Fill in the blanks:

Bacillus thuringiensis genome is used in production of _____ crop Bt cotton.



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80. Fill in the blanks:

Baculovirus is a double stranded _____.



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81. Fill in the blanks:

Rhizobium are found _____ in the root systems of legumes.



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82. Fill in the blanks:

Biologically active products are called
_____.



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83. Fill in the blanks:

Acetobacter is _____ living nitrogenfixers.



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84. Fill in the blanks:

Phosphobacteria are capable of solubilizing
_____ compounds.



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85. Fill in the blanks:

BGA are photo synthetic _____ fixer.



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86. A free-living nitrogen-fixer is



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87. Write note on :

Microbes in food processing.



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88. Microbes in antibiotics production.



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89. Write notes: Alcoholic beverages



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90. Write note on :

Acetic acid fermentation.



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91. Write note on :

Microbes in sewage treatment.



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92. Write note on :

Biogas Production.



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93. Write note on :

Biopesticides.



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94. Write note on:

Biofertilizers.



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95. Differentiate between Alcoholic fermentation and Lactic acid fermentation.



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96. Differentiate between Sterilization and Pasteurization.



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97. Synthetic pesticides and Biopesticides



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98. Differentiate between Chemical Fertilizers and Biofertilizers.



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99. Nitrogen fixation is



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