BIOLOGY

BOOKS - CHETANA BIOLOGY (MARATHI ENGLISH)

Introduction to Microbiology

Exercise

1. Milk is _____ at the beginning to destroy unwanted microbes.

A. heated

B. cooled

C. pasteurized

D. powdered

Answer:

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2. Very hard_____ cheese is formed after ripening for 12-18 months.

A. mozzarella

B. cheddar

C. parmesan

D. cottage

Answer:

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3. Most appropriate method of disposal of dry waste is _____.

A. sanitary landfill

B. composting

C. incineration

D. recycling.

Answer:

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4. _____ bateria present in Root nodules of leguminous plants help in nitrogen fixation.

A. Rhizobium

B. Azotobacter

C. Geobacter

D. Pseudomonas

Answer:

5. Substance prepared by using yeast is _____.

A. bread

B. honey

C. butter

D. yoghurt

Answer:

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6. Yeast reproduces by _____ method of asexual reproduction.

A. spores

B. budding

C. binary fission

D. vegetative reproduction

Answer:

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7. Enzyme _____ obtained from fungi is used to produce vegetarian cheese.

A. lactase

B. amylase

C. protease

D. pepsin

Answer:

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8. Chemically vinegar is 4% _____.

A. acetic acid

B. lactic acid

C. citric acid

D. butyric acid

Answer:

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9. Very small quantity of _____ gas is mixed to produce vinegar.

A. NO_2

B. SO_2

C. CO_2

D. H_2S

Answer:

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10. Rifamycin is effective against_____.

A. Cholera

B. Typhoid

C. Malaria

D. Tuberculosis

Answer:

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11. _____ a by-product of fermentation is a biopesticide.

A. glyphosphate

B. Boric acid

C. Spinosad

D. Malathion

Answer:

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12. Rewrite the statement using correct option and explain the completed statement

Salts which can be used as supplement of calcium and iron are obtained from _____ acid.

A. Gluconic acid

B. Itaconic acid

C. citric acid

D. Lactric acid

Answer:

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13. Rewrite the statement using correct option and explain the completed statement

Process of _____ of milk proteins occurs due to lactic acid.

A. Sedimentation

B. Coagulation

C. Polymerisation

D. Determination

Answer:

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14. Rewrite the statement using correct option and explain the completed statement

Harmful bacterial like _____ in the intestine are destroyed due to probiotics.

A. lactobacilli

B. rhizobium

C. helicobacter

D. clostridium

Answer:

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15. acetic acid is bleached with the help of potassium ferrocyanide before pasteurization.

A. Calcium ferrocyinde

B. Potassium ferrocyinde

C. Potassium chloride

D. Calcium hydroxide

Answer:

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16. _____ imparts thickness to ice-creams.

A. Xanthan gum

B. Xylitol

C. L-glutamic acid

D. Diacetyl

Answer:

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17. Enzyme _____ obtained from alimentary canal of cattle used tranditionally in the production of cheese.

A. maltase

B. rennet

C. lactase

D. pepsin

Answer:

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18. Mixture of bacterial strains like _____ and _____ is mixed with ethanol for its microbial degradation.

A. Candida and Hansenuala

B. Brevibacterium and Corynobacterium

C. Azotobacter and Pseudomonas

D. Acetobacter and Glucanobacter

Answer:

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19. Microbe _____ is used for the production of coffee.

A. Saccharomyces cerevisiae

B. Candida

C. Lactobacillus brevis

D. Lactobacillus delbrueckii

Answer:

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20. _____ acid is used for production of monosodium glutamate (Ajinomoto).

A. L-glutamic acid

B. Glutamic acid

C. Itaconic acid

D. Citric acid

Answer:

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21. Xylitol and aspartme are used as _____.

A. binding agents

B. emulsifiers

C. artificial sweetners

D. Microbial restricitors

Answer:

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22. _____ and _____ bacteria are used to clear to oil spills.

A. Acetobacter and Glucanobacter

B. Pseudomonas spp and Alcanovorax borkumensis

C. Actinomycetes and Streptomyces

D. Acidphillum Spp and Acidobacillus ferroxidens

Answer:

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23. Plastic bottles are formed from the chemical substance

A. Polymer Tetrachloro Polyester

B. Polymer Tetrachloro Polyester

C. Polyehylene Terepthalate Polyester

D. Polyamino Tetrameric Polyethylee

Answer: Polymer Trypotphan Polyester

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24. Bacterial species which can decompose PET or plastic bottles.

A. Acidophillum spp and Acidobacillus ferroxidens

B. Streptomyces and Actinomycetes

C. Vibrio and Idenonella Sakaiensis

D. Acetobacter and Glucanobacter

Answer:

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25. Which of the following microbes is used to control soil pollution occuring due to acid rain ?

A. Acidophillum spp and Acidobacillus ferroxidens

B. Vibrio and Ideonella Sakaiensis

C. Pseudomonas spp and Alcanovorax borkumensis

D. Thiobacilli and Sulphobacilli

Answer:

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26. _____ convery salts of uranium released from the atomic energy plan into insoluble salts.

A. Streptomyces and Actinomucetes

B. Thiobacilli and sulphobacilli

C. Acidophillum spp and Acidobacillus ferroxidens

D. Vibrio and Ideonella sakaiensis

Answer:

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27. In which of the following industries are microbial enzymes not used?

A. Glass industry

B. Cheese industry

C. Tanning industry

D. Paper industry

Answer:

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28. _____ like compounds are formed due to lactobacilli that give characterstic taste to the yoghurt

A. Diacetyle

B. Ethanol

C. Acetaldehyde

D. Xylitol

Answer:

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29. Find the odd word out:

Cheese, kefir, yoghurt, vinegar.

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30. Find the odd word out:

Lactobacillus lactis, Lactobacillus delbrueckii, Lactobacillus cremoris, Streptococcus thermophilus.

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31. Find the odd word out:

Cutting, washing, rubbing, scrubbing.

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32. Find the odd word out:

Acidophilus, Bifidobacterium bifidum, Clostridium, Lactobacillus casei.

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33. Find the odd word out:

Spirulina, Chlorella, Blue green algae, Actinomycetes.

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34. Find the odd word out:

Chilli sauce soya sauce, vinegar, monosodium glutamate.

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35. Find the odd word out:

Oxidoreductases, tranferases, ligases, papain.

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36. Find the odd word out:

Penicillin, erythromycin, gentamycin, acetic acid.

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37. Find the odd word out:

Actinomycetes, Streptomyces, Nocardia, Pseudomonas.

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38. Find the odd word out:

Citric acid, Malic acid, Glutamic acid, Lactic acid.

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39. Find the odd word out:

Beta carotene, lycopene, xanthene, xanthan.

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40. Find the odd word out:

Gentamycin, streptomycin, natamycin, neomycin.

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41. Complete the correlation.

Lactobacilli : Yogurt production :: Azetobacter: _____.

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42. Complete the correlation.

Ideonella sakaiensis : PET : : Actinomycetes : _____.

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43. Complete the correlation.

Phenol oxidising bacteria : Sewage :: Hydrocarbonoclastic bateria : _____.

Watch Video Solution

44. Complete the correlation.

Enzyme rennet : Alimentary canal of cattle : :

Enzyme protease : _____.

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45. Complete the correlation.

Probiotic : Diarrhoea : : Antibiotic Rifamcin :

_____.

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46. Complete the correlation.

Flour cereal : Bread : : Sugar molasses : _____.

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47. Complete the correlation.

Dirt removal : Detergents :: Corn flour: _____.

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48. Complete the correlation.

Pseudomonas spp. : Oil spills : : Acidophillum spp. : _____.

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49. Complete the correlation.

Cocoa : Theobroma cacao :: Coffee : _____.

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50. Complete the correlation.

Yoghurt : Lactobacilli delbrueckii :: coffee : _____.

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51. Complete the correlation.

Gluconic acid : Aspergillus niger :: Itaconic acid : _____.

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52. Complete the correlation.

Polysaccharides : Emulsifiers :: Aspartame : _____.

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53. Explain the difference between Applied Microbiology and Industrial Microbiology.

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54. Explain the difference between sweet cream butter and cultured variety of butter.

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55. Match the following

Column A	Column B
(1) Xylitol	(a) Pigment
(2) Citric acid	(b) To impart sweetness
(3) Lycopene	(c) Microbial restrictor
(4) Nycin	(d) Protein binding emulsifier
	(e) To impart acidity

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56. Match the following

Column A	Column B
(1) Yoghurt	(a) *Lactobacillus lactis*
(2) Bread	(b) *Lactobacillus casei*
(3) Cheese	(c) *Lactobacillus delbrueckii*
(4) Kefir	(d) *Saccharomyces cerevisiae*
	(e) *Aspergillus oryzae*

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57. Match the following

Column A	Column B
(1) Apple	(a) Coffee
(2) Grapes	(b) Cocoa
(3) *Theobroma cacao*	(c) Chocolate
(4) *Caffea arabica*	(d) Wine
	(e) Cider

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58. Match the following

A	B	C
(1) Methane fuel	(i) Yeast - *Saccharomyces*	(a) Bio-photolysis of water
(2) Hydrogen fuel	(ii) Microbial anaerobic decomposition	(b) Fermentation of molases
(3) Ethanol fuel	(iii) Photoreduction by bacteria	(c) Urban, agricultural, industrial waste.

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59. Match the following

Column A	Column B
(1) Solid fuel	(a) Vegetable oils
(2) Liquid fuel	(b) Gobar gas
(3) Gaseous fuel	(c) Crop residue

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60. Match the following

Column A	Column B
(1) Phenol oxidising bacteria	(a) Prevent leaching of iron, zinc by forming compounds
(2) *Thiobacilli*	(b) Xenobiotic chemicals
(3) *Pseudomonas spp.*	(c) Soil pollution due to acid rain
(4) *Ideonella sakaiensis*	(d) Biopesticide
(5) *Actinomycetes*	(e) Oil spills
(6) *Acidobacillus ferroxidens*	(f) PET
	(g) Rubber

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61. State whether the following statements are True or False. Correct the false statement.

Industrial microbiology uses microbes for garbage management and pollution control.

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62. State whether the following statements are True or False. Correct the false statement.

Various products like food and cosmetics are produced on a large scale with the help of micro-organisms.

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63. State whether the following statements are True or False. Correct the false statement.

Milk is converted into various products for its preservation purpose.

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64. State whether the following statements are True or False. Correct the false statement.

Basic process for production of yoghurt, cheese and cream is different.

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65. State whether the following statements are True or False. Correct the false statement.

Milk is pasteurized at the beginning to destroy unwated microbes.

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66. State whether the following statements are True or False. Correct the false statement.

Bacterial strains of Streptococcus thermophilus and Lactobacillus delbrueckii are added to warm temperature milk in $2:1$ proportion.

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67. State whether the following statements are True or False. Correct the false statement.

Cheese is produced on large scale from abundantly available cow milk all over the world.

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68. State whether the following statements are True or False. Correct the false statement.

Whey is separated form yoghurt in the production.

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69. State whether the following statements are True or False. Correct the false statement.

Enzyme protease obtained from fungi is used to produce vegetarian cheese.

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70. State whether the following statements are True or False. Correct the false statement.

Useful microbes become inactive due to antibiotics, probiotics make them active again.

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71. State whether the following statements are True or False. Correct the false statement.

Ajinomoto, a popular chinese food is produced by microbial fermentation.

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72. State whether the following statements are True or False. Correct the false statement.

Probiotics are used for treatment fo cough and cold.

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73. State whether the following statements are True or False. Correct the false statement.

Microbial enzymes are inactive at low temperature.

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74. State whether the following statements are True or False. Correct the false statement.

Bio-fuel is among non-renewable source of good energy.

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75. State whether the following statements are True or False. Correct the false statement.

In villages, domestic sewage is diposed off in nearby soil.

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76. State whether the following statements are True or False. Correct the false statement.

Soyabean sauce is produced with the help of fungus Aspergillus niger.

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77. State whether the following statements are True or False. Correct the false statement.

Mozzarella cheese is very hard cheese.

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78. State whether the following statements are True or False. Correct the false statement.

On storing for 3 to 12 months, very hard cheese called Parmesan cheese is formed.

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79. State whether the following statements are True or False. Correct the false statement.

Antibiotics maintain the balance of intestinal microorganisms.

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80. State whether the following statements are True or False. Correct the false statement.

Nowadays, probiotics are used for treatment of diarrhoea and treatment of diarrhoea and treatment of poultry.

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81. State whether the following statements are True or False. Correct the false statement.

Acetic acid is bleached with the help of potassium permanganate.

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82. _____ acid is used for production of monosodium glutamate (Ajinomoto).

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83. State whether the following statements are True or False. Correct the false statement.

Microbes are used for bioremediation of environment polluted due to sewage.

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84. State whether the following statements are True or False. Correct the false statement.

Bacteria used to clear oil spills are called phenol oxidising bacteria.

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85. Name the following:

Fermented food items

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86. Name the following:

Acid present in Yoghurt

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87. Name the following:

Sugar present in milk

Watch Video Solution

88. Name the following:

Dairy product produced with the help of fungi

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89. Name the following:

Bacterial strains which convert milk to Yoghurt.

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90. Name the following:

Water in yoghurt

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91. Name the following:

Microbes used in production of cheese.

Watch Video Solution

92. Name the following:

Enzyme from which vegetarian cheese is produced.

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93. Name the following:

Steps for process of cheese production.

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94. Name the following:

Yeast used in commercial bakery industry.

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95. Name the following:

Ingredients of popular chinese food produced by microbial fermentation.

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96. Name the following:

Chemical used to impact sour taste and to preserve.

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97. Ethanol, an alcohol is obtained by fermentation of carbon compounds with the help of which microbe ?

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98. Name the following:

Yeast used for production of Ethanol.

Watch Video Solution

99. Name the following:

Bacterial strains added to ethanol to produce acetic acid.

Watch Video Solution

100. Name the following:

Fungus used in production of soya sauce.

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101. Name the following:

Microbial enzymes.

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102. Name the following:

Industries in which microbial enzymes are used.

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103. Name the following:

Microbe acting on fruit apple and grapes.

Watch Video Solution

104. Name the following:

Microbe acting on fruit Theobroma cacao.

Watch Video Solution

105. Name the following:

Microbe acting on fruit Caffea arabica.

Watch Video Solution

106. Name the following:

Amino acid obtained form Aspergillus itaconius.

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107. Name the following:

Amino acid obtained from Lacobacillus delbrueckii.

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108. Name the following:

Amino acid obtained form Aspergillus niger.

Watch Video Solution

109. Name the following:

Amino acid obtained form Brevibacterium, Corynobacterium.

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110. Name the following:

Substance which impart acidity.

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111. Name the following:

Substances which help in protein binding.

Watch Video Solution

112. Name the following:

Substances which are microbial restrictors.

Watch Video Solution

113. Name the following:

Substances which are antioxidants and vitamins.

Watch Video Solution

114. Name the following:

Substances which are edible colours.

Watch Video Solution

115. Name the following:

Substances which are used as emulsifiers.

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116. Name the following:

Substances which are artificial sweeteners (low calorie).

Watch Video Solution

117. Name the following:

Substances which are used as essence.

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118. Name the following:

Antibiotics obtianed form various strains of gram positive and gram negative bateria.

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119. Name the following:

Solid Bio-fuel

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120. Name the following:

Liquid Bio-fuel

Watch Video Solution

121. Name the following:

Gaseous Bio-fuel

Watch Video Solution

122. Name the following:

Antibiotics effective against tuberculosis.

Watch Video Solution

123. Name the following:

Metals which leach into the environment form low equality metalloids.

Watch Video Solution

124. Name the following:

Hydrocarbonoclastic bacteria (HCB).

Watch Video Solution

125. Name the following:

Chemical susbtance from which plastic bottles are made.

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126. Name the following:

Species of bacteria which decompose. PET.

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127. Name the following:

Species of fungi which decompose rubber from garbage.

Watch Video Solution

128. Name the following:

A biopesticide

Watch Video Solution

129. Name the following:

Bacteria which use sulphuric acid as a source of energy.

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130. Define the following terms:

Applied microbiology.

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131. Define the following terms:

Industrial microbiology.

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132. What for Probiotic food is famous?

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133. Use your brain power. In earlier class, you had prepared the solution of dry yeast for

observation of yeast. Which substance is prepared by its use on commerical basis ?

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134. Which function are performed by enzymes secreted in human digestive system ?

Watch Video Solution

135. Use your brain power. Food materials like cold drinks, ice creams, cakes, juces are

available in various colours and flavous. Whether these colours and flavoures are really derived from fruits ?

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136. Which different materials are decomposed in biogas plant ?

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137. Which useful materials are obtained through biogas plant? Which is the fuel out of those ?

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138. Decomposition occurs through which organisms?

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139. Why is it asked to segregate wet and dry waste in each home ?

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140. What is done with the segregated waste ?

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141. Which is most appropriate method of disposal of dry waste ?

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142. How the bacteria present in soil and root nodules of leguminous plants are useful ?

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143. Which plants are cultivated to obtain the fuel ?

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144. Which fuels are obtained from biomass ?

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145. Which materials should not be present in garbgage for its proper microbial decomposition ?

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146. Write short notes on:

Industrial microbiology.

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147. Dairy products

Watch Video Solution

148. Write short notes on:

Probiotics.

Watch Video Solution

149. Write short notes on:

Yoghurt.

Watch Video Solution

150. Write short notes on:

Vinegar Production.

Watch Video Solution

151. Write short notes on:

Microbial enzymes.

Watch Video Solution

152. Write short notes on:

Xanthan gum.

Watch Video Solution

153. Write short notes on:

Antibiotics.

Watch Video Solution

154. Write short notes on:

Land-filling sites.

Watch Video Solution

155. Write short notes on:

Sewage Management.

Watch Video Solution

156. Write short notes on:

Clean Technology.

Watch Video Solution

157. Write short notes on:

Microbial Inoculants.

Watch Video Solution

158. Write short notes on:

Bioinsecticides.

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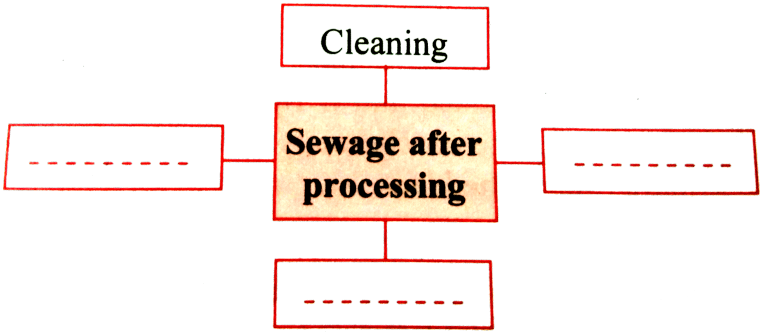
159. Complete the following conceptual picture.



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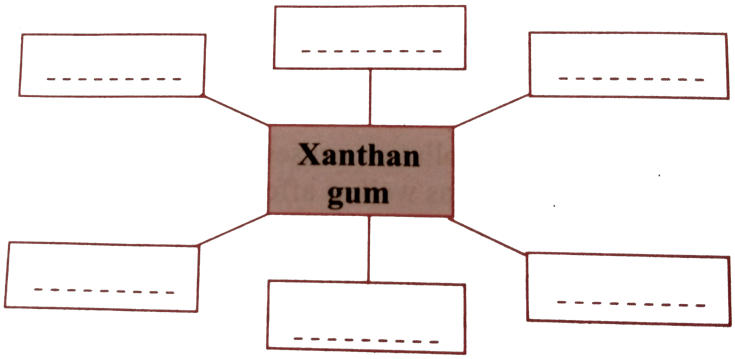
160. Complete the following conceptual picture with respect to uses.



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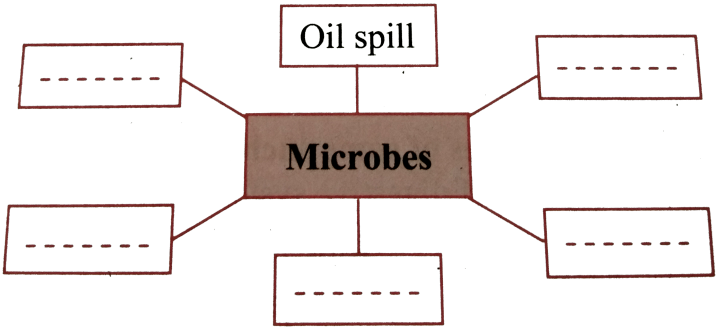
161. Complete the following conceptual picture related to environmental management.



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162. Distinguish betwee :

Yoghurt and Cheese

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163. Distinguish betwee :

Chemical catalyst and Microbial enzymes

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164. Give scientific reasons:

Milk is pasteurized at the beginning.

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165. Whey is removed during cheese production.

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166. Microbial enzymes are used instead of chemical catalysts in chemical industry.

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167. Enzymes obtained by microbial process are mixed with detergents.

Watch Video Solution

168. Use of mutant strains has been increased in industrial microbiology.

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169. Question based on any incident:

Priya's mother has left for office, asking her to set curds for the meals, suggest ways in which Priya will set curds.

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170. Suresh is down with diarrhoea. Suggest food that can help him with his stomach trouble.

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171. Swati was suffering with Tuberculosis. She was advised as course on antibiotics. Suggest methods by which Swati can improve her health by her food.

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172. Bhikaji Tambe a farmer in Kolhapur has planned a big harvest of sugarcane in his field. Suggest him ways and means for a high yield with organic farming.

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173. Compressed wastes is _____ in the pit. It is covered with layers of _____, _____, leafy waste and _____. _____ aremixed at some places. _____ present in the soil and other top layers _____ the waste. Completely filled pit is ____ with soil _____, Best quality _____ is formed after few days.

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174. Complete the following table representing production of beverages.

No.	Fruit	Microbe used	Role of microbe	Name of beverage
i.	*Coffea arabica*	----------	Separating seeds from fruit	----------
ii.	----------	*Candida, Pichia (Hansenula), Saccharomyces*	Separating seeds from fruit	----------
iii.	Grapes	----------	Fermentation of juice	Wine
iv.	Apple	*Saccharomyces cerevisiae*	Fermentation of juice	----------

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175. Enlist the sources of various organic, acids, the microbes used to produce them and their uses.

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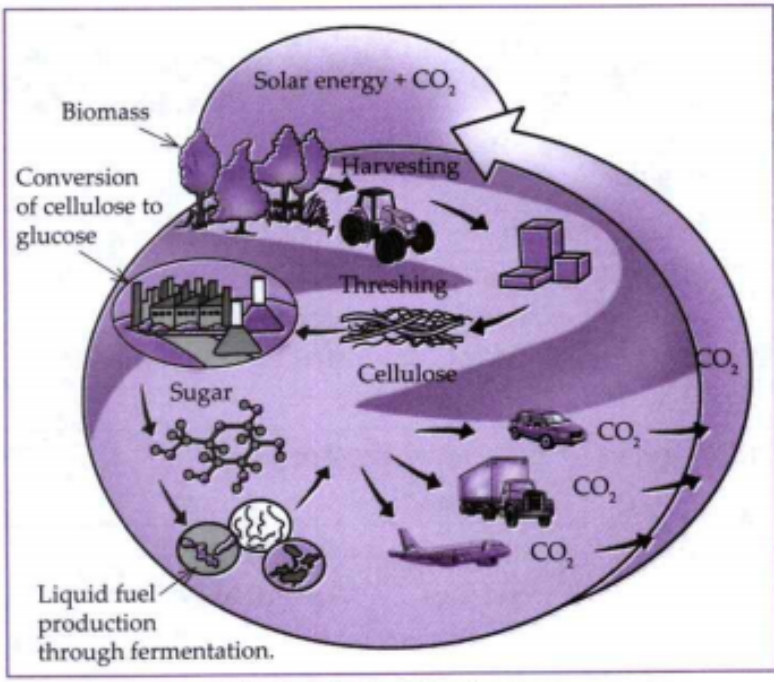
176. Observed the following diagram and answer the questions.



Solar energy + CO_2 contributes to which process?

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177. What is biomass?

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178. Who helps in the conversion of cellulose to glucose?

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179. Name the liquid fuel produced through Fermentation.

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180. Classify the fuels.

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181. Who ferments sugar into liquid fuel?

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182. Which type of cheese is used in western food like pizza, burger, sandwich, etc?

What is the difference between those type of cheese.

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183. What do you mean by antibiotic ?

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184. antibiotic precautions should be taken about their consumption?

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185. Observe the grabage vans of gram panchayat and municipality. Nowadays, there is facility of decreasing the volume of garbgage by compaction those vans. Explain the advantages of this activity.

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186. You must have seen or read the news of dead fishes or oily water accumulating at the sea coasts. Why does this happen ?

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187. Explain the importance of biopesticides in organic farming.

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188. Which are the reason for increasing the popularity of probiotic products ?

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189. How the bread and other products produced using baker's yeast are nutritious ?

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190. Which different microboes are useful to us ?

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191. Which different products can be produced with the help of microbes ?

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192. We use the fermentation process while conversion of milk into yoghurt. Which microbes are useful for this process ?

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193. How does the bread become spongy ?

Watch Video Solution

194. Explain the production of cheese.

Watch Video Solution

195. Explain the role of microbes in farming.

Watch Video Solution

196. Which precautions are necessary for proper decomposition of domestic waste ?

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197. What are the benefits of mixing ethanol with petrol and diesel?

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198. How can the oil spills of rivers and oceans be cleaned ?

Watch Video Solution

199. What are the differnet types of cheese?

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200. Why is it necessary to ban the use of plastic bags?

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201. How can the soil polluted by acid rain be made fertile again ?

Watch Video Solution

202. Explain biofuel production with the help of a diagram

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203. Complete the flow chart and answer the questions given below.

What is the basic purpose behind conversion of milk into various dairy products?

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204. Give example of one microbe used in any two of the above dairy products.

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205. Explain the role of microbes in chemical pollution.

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206. Which fuels can be obtained by microbial processes ? Why is it necessary to increases the use of such fuels ?

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207. What is role of microbes in compost production ?

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208. Explain the process of Land - filling site with a neat labelled diagram.

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209. How the sewage generated in your house or apartment is disposed off ?

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210. Paragraph based questions. Read the paragraph and answer the following questions:

In cities sewage needs to be carried to processing unit and acted upon by microbial process. Microbes which can decompose any compound as well as destroy the pathogens of cholera, typhoid are mixed with sewage. They release methane and carbondioxide by decomposition of the carbon compounds present in sewage. Phenol oxidising bacteria decompose the xenobiotic chemicals present in sewage.

Where is sewage in cities disposed off?

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211. Which disease pathogens are destroyed by microbes?

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212. Which gases are released by decompostion of carbon compounds?

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213. What is the role of Phenol oxidising bacteria?

Watch Video Solution

214. Give a heading to the paragraph.

Watch Video Solution

215. Most appropriate method of disposal of dry waste is _____.

A. sanitary landfill

B. composting

C. incineration

D. recycling.

Answer:

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216. _____ bateria present in Root nodules of leguminous plants help in nitrogen fixation.

A. Rhizobium

B. Azotobacter

C. Geobacter

D. Pseudomonas

Answer:

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217. Say True or False: Microbes ferment sugar into liquid fuel.

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218. Find the odd word out:

Penicillin, erythromycin, gentamycin, acetic acid.

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219. Yoghurt : Bacteria in Milk :: Cheese: _____

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220. Write any four uses of Probiotics.

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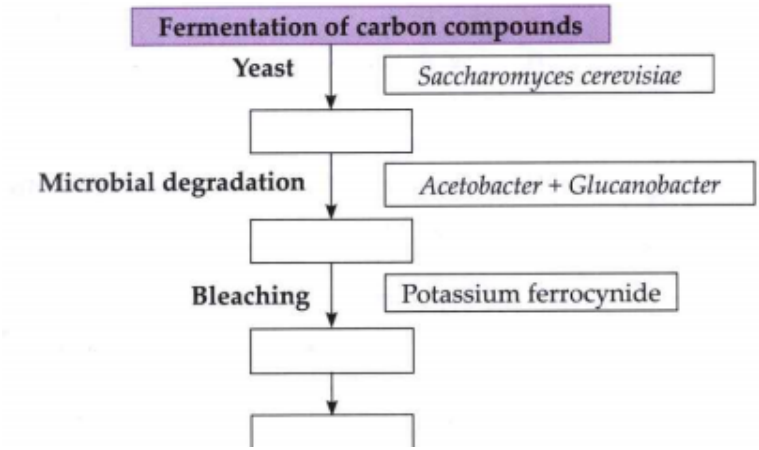
221. Complete the chart.



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222. Give scientific reasons:

Milk is pasteurized at the beginning.

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223. What is role of microbes in compost production ?

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224. Explain the importance of biopesticides in organic farming.

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225. Explain the role of microbes in chemical pollution.

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226. Explain biofuel production with the help of a diagram

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227. Explain the process of Land - filling site with a neat labelled diagram.

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