



BIOLOGY

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MICRO - ORGANISMS : FRIEND AND FOE.

Exercise

1. Name the instrument (or device) which is needed to see the micro - organisms.



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2. What is the name of micro- organisms which reproduce only inside the living cells of other organisms?



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3. What are the major groups of micro - organisms?



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4. Name any two human diseases caused by bacteria.



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5. Name atleast two diseases caused by viruses.



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6. Name any two human diseases caused by protozoa.



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7. Name any two human diseases caused by fungi.



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8. Which micro - organism is utilised in making curd from milk ?

A. Staphylococcus

B. Bacillus

C. Streptococcus

D. Lactobacillus

Answer: D



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9. Name the micro - organisms which is used for the large scale production of alcohol.



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10. Name any two antibiotics.



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11. Name an antibiotic extracted from fungus (mould). Name the fungus.



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12. Name any four diseases which can be prevented by vaccination.



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13. Name the scientist who discovered the vaccine for smallpox.



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14. Name the scientist who discovered 'penicillin'.



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15. State an important function performed by blue - green algae.



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16. Name one 'biological nitrogen- fixer'.



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17. Name two common insects which act as carries of disease - causing micro- organisms (

or disease - causing microbes).



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18. Name any two diseases spread by housefly.



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19. Name the insect which is the carrier of parasite of malaria.



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20. Name the insect which carries dengue virus.

A. Anopheles mosquito

B. Aedes Mosquito

C. Culex mosquito

D. None of the above

Answer: B



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21. Which of the two spreads dengue :
mosquito or housefly?



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22. Name two diseases spread by mosquitoes.



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23. Name the microbe which causes malaria
disease.



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24. Name one disease which spreads by breathing in air containing micro-organisms.



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25. Name one disease which spreads through insect bites.



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26. Name one disease which spreads through infected food or water.



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27. Name the causative micro - organisms of the following animal diseases:

a) Foot and mouth disease



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28. Name the causative micro - organisms of the following animal diseases:

b) Anthrax



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29. Name two food materials which are preserved by sun - drying method in our homes.



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30. Name two food materials which are preserved by using common salt.



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31. Name two food materials which can be preserved by using sugar.



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32. Name two food materials which are usually preserved by deep freezing.



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33. Name some of the preservatives which are used in the preservation of fruits as jams and jellies.



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34. Name some of the preservatives which are used in the preservation of fruits and vegetables as pickles.



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35. Name two food materials which can be preserved by using oil or vinegar.



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36. Name any two special chemicals which are used as food preservatives.



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37. Name the microorganisms which can fix atmospheric nitrogen in the soil.



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38. What type of plants can fix nitrogen gas of the air into compounds of nitrogen ?



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39. Name the micro - organisms present in the soil and in the root nodules of leguminous plants which can fix atmospheric nitrogen.



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40. Name two leguminous plants which can fix nitrogen.



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41. Fill in the blanks with suitable words :

a) Alcohol is produced with the help of



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42. Fill in the blanks:

Blue green algae fix _____ directly from air to enhance fertility of soil.



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43. Fill in the blanks with suitable words :

c) Micro - organisms can be seen with the help of a



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44. Fill in the blanks with suitable words :

d) Cholera is caused by



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45. Fill in the blanks with suitable words :

e) Common salt has been used to preserve
..... And For ages.



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46. Fill in the blanks with suitable words :

f) The food material which is preserved by pasteurisation is



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47. Fill in the blanks with suitable words :

g) As a result of nitrogen cycle, the percentage of nitrogen in the atmosphere remains more or less



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48. How do viruses differ from other micro - organisms such as bacteria ?



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49. What are micro - organisms ? Give any two examples of micro organisms.



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50. Can microorganisms be seen with the naked eyes? If not, how can they be seen?



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51. How do houseflies carry disease - causing microbes (or pathogens) ?



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52. State any two ways of preventing diseases spread by houseflies.



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53. How do mosquitoes carry disease - causing micro - organisms and spread diseases ?



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54. Mention any three ways of preventing diseases spread by mosquitoes.



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55. What is meant by fermentation ? Name the scientist who discovered fermentation.



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56. Which micro - organism converts sugar into alcohol during fermentation?



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57. How do micro - organisms help in increasing soil fertility ?



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58. How do micro - organisms help in cleaning the environment ?



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59. What are antibiotics? What precautions must be taken while taking antibiotics?



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60. Why are antibiotics not effective against 'common cold' and 'flu' ?



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61. What is the full form of HIV ? Name the disease caused by HIV.



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62. Describe how, curd is made from milk. Name the bacterium which converts milk into curd.



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63. Name the micro - organism used in bread - making which makes the bread - dough rise. How does it make the dough rise ?



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64. What is food poisoning ? How is food poisoning caused ?



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65. What is meant by food preservation ?

Name any five methods of preserving food.



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66. How do you preserve cooked food at home ?



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67. Why should we not let water collect anywhere in the neighbourhood ?



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68. Name one animal disease each caused by virus .



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69. Name one animal disease each caused by bacteria.



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70. Name one animal disease each caused by fungus.



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71. Where do Rhizobium bacteria live ? What is their function ?



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72. Name any two bacteria.



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73. Name any two viruses .



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74. Name any two protozoa .



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75. Name any two algae.



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76. Name any two fungi.



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77. State the beneficial effects (or usefulness)
of micro - organisms in our lives.



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78. Describe the method of pasteurisation for the preservation of milk.



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79. Name one plant disease each caused by fungi.



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80. Name one animal disease each caused by virus .



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81. Name one animal disease each caused by bacteria.



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82. Which disease is spread by female Anopheles mosquito ?



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83. Which disease is spread by female Aedes mosquito ?



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84. Name two fruits which are preserved in the form of pickles.



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85. Name two fruits which are preserved in the form of jams.



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86. What is the mode of transmission of the following diseases ?

a) Rust of wheat



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87. What is the mode of transmission of the following diseases ?

b) Citrus canker



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88. What is the mode of transmission of the following diseases ?

c) Yellow vein mosaic of bhindi (Okra)



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89. Name any two animal diseases and two plant diseases caused by micro - organism.



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90. State the causative micro - organisms and modes of transmission of the following human diseases :

i) Tuberculosis.



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91. State the causative micro - organisms and modes of transmission of the following human diseases : ii) Measles



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92. State the causative micro - organisms and modes of transmission of the following human diseases : iii) Chickenpox



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93. State the causative micro - organisms and modes of transmission of the following human diseases : iv) Polio



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94. State the causative micro - organisms and modes of transmission of the following human diseases : v) Cholera.



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95. State the causative micro - organisms and modes of transmission of the following human diseases : vi) Typhoid



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96. State the causative micro - organisms and modes of transmission of the following human diseases : vii) Hepatitis B



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97. State the causative micro - organisms and modes of transmission of the following human diseases : viii) Malaria



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98. State the causative micro - organisms and modes of transmission of the following human diseases : ix) Dengue.



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99. What is meant by communicable diseases ?

Name any two communicable diseases.



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100. What are the the various ways in which communicable diseases can occur and spread ?



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101. Name any five human diseases caused by micro - organisms. Also name the causative micro - organisms and mode of transmission for each of these diseases.



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102. State the various ways of preventing the occurrence and spreading of communicable diseases.



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103. What is a vaccine ? How does a vaccine work ?



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104. Why are children given vaccination ?



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105. What is meant by 'nitrogen fixation' ?

State two ways in which nitrogen gas of the atmosphere can be 'fixed' in nature to get nitrogen compounds in the soil.



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106. Draw a neat ,labelled diagram of nitrogen cycle in nature. Which natural phenomenon occuring in the sky is responsible for nitrogen fixation.



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107. The bread dough rises because of :

A. heat

B. grinding

C. growth of yeast cells

D. kneading

Answer: C



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108. Yeast is used in the production of :

A. sugar

B. alcohol

C. hydrochloric acid

D. oxygen

Answer: B



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109. The process of conversion of sugar into alcohol is called _____.

A. nitrogen fixation

B. moulding

C. fermentation

D. infection

Answer: C



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110. Which of the following is an antibiotic ?

A. Sodium bicarbonate

B. streptomycin

C. alcohol

D. yeast

Answer: B



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111. Tick the correct answer:

The most common carrier of communicable diseases is

A. ant

B. housefly

C. dragonfly

D. spider

Answer: B



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112. The carrier of malaria - causing protozoan is :

A. female Anopheles mosquito

B. cockroach

C. housefly

D. female Aedes mosquito

Answer: A



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113. The vaccine for smallpox was discovered by:

A. Alexander Fleming

B. Edward Jenner

C. Louis Pasteur

D. Robert Koch

Answer: B



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114. Alcohol can be converted into vinegar by the action of micro - organisms called :

A. viruses

B. yeast

C. protozoa

D. bacteria

Answer: D



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115. The first antibiotic called penicillin was extracted from:

A. a bacterium

B. a protozoan

C. a fungus

D. an alga

Answer: C



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116. Which of the following is not a communicable disease ?

A. cholera

B. cancer

C. chickenpox

D. malaria

Answer: B



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117. Which of the following increase the fertility of soil ?

A) Lactobacillus bacteria B) Rhizobium bacteria
C) Spirogyra algae D) Blue - green algae

A. A and B

B. B and C

C. A and D

D. B and D

Answer: D



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118. Which of the following cannot be used as a food preservative ?

A. Sodium metabisulphite

B. Sodium hydroxide

C. Sodium benzoate

D. Citric acid

Answer: B



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119. Which of the following disease is not caused by bacteria ?

A. Chlorea

B. typhoid

C. tuberculosis

D. measles

Answer: D



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120. The micro - organisms which can reproduce and multiply only inside the cells of other organisms are :

A. Protozoa

B. fungi

C. bacteria

D. viruses

Answer: D



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121. The dengue disease spread by Aedes mosquito is caused by :

A. Bacteria

B. virus

C. protozoan

D. fungus

Answer: C



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122. Which of the following diseases is not caused by viruses?

A. measles

B. smallpox

C. cholera

D. Polio

Answer: C



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123. The micro - organisms which is capable of converting sugar into alcohol and carbon and carbon dioxide is :

A. Bacterium

B. fungus

C. alga

D. protozoan

Answer: B



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124. Which of the following is not a use of micro-organisms?

A. Preparation of medicines (or drugs)

B. preparation of food by photosynthesis

C. Recycling of materials in nature

D. increasing the fertility of soil.

Answer: B



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125. The malaria disease is caused by a :

A. virus

B. Protozoan

C. bacterium

D. fungus

Answer: B



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126. The parasite called Plasmodium causes a diseases known as :

A. measles

B. polio

C. malaria

D. dengue

Answer: C



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127. After consuming a dish of mutton, a person complained of nausea , vomiting , diarrhoea, and pain in the abdomen

a) What type of disease is he suffering from?



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128. After consuming a dish of mutton, a person complained of nausea , vomiting , diarrhoea, and pain in the abdomen

b) What causes this disease ?



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129. To which category of micro - organisms do the following belong ?

Amoeba, Lactobacillus, Chlamydomonas,
Penicillium , Yeast , HIV.



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130. Name the causative micro - organisms of
the following plant diseases :

Rust of wheat



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131. Name the causative micro - organisms of the following plant diseases :

Citrus canker



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132. Name the causative micro - organisms of the following plant diseases :

Yellow vein mosaic of bhindi (Okra)



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133. The mosquito P is a carrier of virus and spreads a disease Q. Another mosquito R is the carrier fo protozoan S and spreads a disease called T.

a) Name (i) mosquito P and ii) disease Q.



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134. The mosquito P is a carrier of virus and spreads a disease Q. Another mosquito R is the carrier fo protozoan S and spreads a disease called T.

b) Name (i) mosquito R (ii) protozoan S, and
iii) disease T.



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135. The mosquito P is a carrier of virus and spreads a disease Q. Another mosquito R is the carrier fo protozoan S and spreads a disease called T.

c) What is the sex of mosquito P?



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136. The mosquito P is a carrier of virus and spreads a disease Q. Another mosquito R is the carrier fo protozoan S and spreads a disease called T.

d) What is the sex of mosquito R?



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