



# BIOLOGY

## BOOKS - NAVNEET PUBLICATION

### INTRODUCTION TO MICROBIOLOGY

#### Examples

1. Which different microbes are useful to us ?



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



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



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4. Which different type of cheese are used in western food like pizza, burger, sandwich, etc. ?



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5. What is difference between those types of cheese ?



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6. What for Probiotic food is famous?



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



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8. Give names of some such enzymes.



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9. What do you mean by antibiotic ?



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10. Which precautions should be taken about their consumption?



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**11.** Which different materials are decomposed in biogas plant ?



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



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**13.** In biogas plant, Decomposition occurs through which organisms ?



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



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## Exercise

1. Enzyme \_\_\_\_\_ obtained from fungi is used to produce vegetarian cheese.

A. lipase



B. protease

C. amylase

D. trypsin

**Answer: B**



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2. Milk is \_\_\_\_\_ at the beginning to destroy unwanted microbes.

A. pasteurization

B. Vanillin

C. coagulation

D. decomposition

**Answer: A**



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3. \_\_\_\_\_ like compounds are formed due to lactobacilli that give characteristic taste to the yoghurt

A. Lactose

B. Caesin

C. Acetyldehyde

D. All the above

**Answer: C**



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**4.** Choose the correct alternative ana write its  
alphabet against the sub - question number :

Methane can be obtained by .....

decomposition of urban agricultural and  
industrial waste

aerobic

anaerobic

microbial anaerobic

chemical

A. aerobic

B. anaerobic

C. microbial anaerobic

D. chemical

**Answer: C**



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5. Choose the correct alternative and write its alphabet against the sub - question number :

..... gas is considered to be the fuel of future.

Hydrogen

Nitrogen

Methane

Butane

A. Hydrogen

B. Nitrogen

C. Methane

D. Butane

**Answer: A**



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**6.** Choose the correct alternative and write its alphabet against the sub - question number :  
..... are mixed with waste materials at land-filling sites for quicker decomposition

Microbes

Bioreactors

Fungi

Worms

A. Microbes

B. Bioreactors

C. Fungi

D. Worms

**Answer: B**



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7. Choose the correct alternative and write its alphabet against the sub - question number :

..... bacteria decompose the xenobiotic chemicals present in sewage.

A. Hydrocarbonoclastic

B. Decomposing

C. E.coli

D. Phenol oxidizing

**Answer: D**





8. Choose the correct alternative and write its alphabet against the sub - question number :

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

- A. protection
- B. conservation
- C. bioremediation
- D. decomposition

**Answer: C**



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**9.** Choose the correct alternative and write its alphabet against the sub - question number :

..... is a powerful antibiotic against tuberculosis.

A. Streptomycin

B. Tetracycline

C. Rifamycin

D. Bacitracin

**Answer: C**



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**10.** Choose the correct alternative and write its alphabet against the sub - question number :  
Bacteria used to clear the oil spills are called ..... bacteria.

A. phenol oxidizing

B. electrolytic

C. hydrocarbonoclastic

D. decomposing

**Answer: C**



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**11.** Choose the correct alternative and write its alphabet against the sub - question number :  
.....-.... convert these salts of uranium into insoluble salts.

A. Saccharomyces

B. Thiobacillus

C. Acidobacillus

D. Geobacter

**Answer: D**



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**12.** Choose the correct alternative and write its alphabet against the sub - question number :

..... a byproduct of fermentation is a biopesticide.

A. Fluoroacetamide

B. Vanillin

C. Aspartame

D. Spinosad

**Answer: D**



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**13.** Choose the correct alternative and write its alphabet against the sub - question number :

..... beverage is obtained by fermentation of apple juice.

A. Cider

B. Wine

C. Coffee

D. Cocoa

**Answer: A**



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**14.** Choose the correct alternative and write its alphabet against the sub - question number :

Vinegar is the chemically ..... acid.

A. Citric

B. Gluconic

C. Glutamic

D. Acetic

**Answer: D**







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

A. Glass industry

B. Cheese industry

C. Tanning industry

D. Paper industry

**Answer: A**



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**16.** Citric acid used in production of beverages, toffees, chocolates is obtained by fermentation of \_\_\_\_\_ by *Aspergillus niger*.

A. grapes

B. sugar molasses

C. apple

D. coffee nuts

**Answer: B**



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**17.** 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. carbonic acid

B. acetic acid

C. citric acid

D. gluconic acid

**Answer: D**



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**18.** Rewrite the statement using correct option and explain the completed statement

Process of \_\_\_\_\_ of milk proteins occurs due to lactic acid.



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**19.** Rewrite the statement using correct option and explain the completed statement

Process of \_\_\_\_\_ of milk proteins occurs due to lactic acid.



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**20.** Rewrite the statement using correct option and explain the completed statement

Chemically, vinegar is \_\_\_\_\_



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**21.** 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.



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22. Match the pairs:

* (1) 'A' group	'B' group
(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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23. Match the pairs:

(2) Column 'A'	Column 'B'
(1) Vinegar	(a) Polylactic acid
(2) Xanthan gum	(b) Molasses
	(c) Icecreams and puddings
	(d) Acetic acid



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**24.** Find the odd one out:

Lactobacillus acidophilus, Lactobacillus casei,  
Bifidobacterium bifidum, Streptococcus  
thermophilus



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**25.** Find the odd one out:

Lactobacillus lactis, Bifidobacterium bifidum,  
Lactobacillus cremories, streptococcus  
thermophilus





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**26.** Find the odd one out:

Dark chocolate, Miso soup, wafers, corn syrup



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**27.** Find the odd one out:

Vinegar, soya sauce, ketchup, monosodium glutamate



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**28.** Find the odd one out:

Actinomycetes, streptomyces, Nocardia, yeast



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**29.** Find the correlation:

Bread: Baker's yeast:: Soya sauce:.....



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30. Coffee : Coffea arabica :: Cocoa : \_\_\_\_\_



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31. Find the correlation:

Oil    slick:    Alcanovorax:    Rubber    from  
garbage:.....



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**32.** Find the correlation:

Conversion of metals into compounds:

Thiobacilli: conversion of uranium salts.....



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**33.** Microbial enzymes



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**34. Name the following:**

Emulsifiers



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**35. Name the following:**

Microbe used in preparation of wine and cider.



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**36.** Name the following:

Antibiotics effective against tuberculosis.



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**37.** Name the following:

Antibiotics



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**38.** Name the following:

Bacteria which use sulphuric acid as a source of energy.



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**39.** Name the following:

Substance that makes biodegradable plastic.



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**40.** Name the following:

Curd like food product made from sheep milk,



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**41.** Name the following:

Enzyme from which vegetarian cheese is produced.



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**42.** Name the following:

Fungus used in production of soya sauce.



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**43.** Name the following:

Write the molecular formula for: 4% acetic acid(vinegar)



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## 44. Comeplete the charts

(1)

Fruit	Microbe used	Name of beverage
<i>Caffea arabica</i>	<i>Lactobacillus brevis</i>	Coffee
<i>Theobroma cacao</i>	<i>Candida, Hansenula, Pichia, Saccharomyces</i>	Cocoa
Grapes	<i>Saccharomyces cerevisiae</i>	Wine
Apple	<i>Saccharomyces cerevisiae</i>	Cider



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## 45. Comeplete the charts

(3) (July '19)

Source	Microbe	Amino acid
(1) Sugar molasses and salt	<i>Aspergillus niger</i>	Citric acid
(2) Molasses, corn steep liquor	<i>Lactobacillus delbrueckii</i>	Lactic acid
(3) Corn steep liquor	<i>Aspergillus itaconius</i>	Itaconic acid



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## 46. Comeplete the charts

Substance obtained by microbial processing	Roles
(1) Citric acid	To impart acidity
(2) Ascorbic acid	Antioxidants, vitamins
(3) Beta carotene	Edible colours
(4) Glycolipid	Emulsifiers
(5) Vanillin	Essence
(6) Xylitol	Artificial sweetener (low caloric)



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



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**48.** Enzymes obtained by microbial process are mixed with detergents.



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**49.** Microbial enzymes are used instead of chemical catalysts in chemical industry.



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**50.** Give the scientific reasons:

Microbial enzymes are said to be eco-friendly.



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



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**52.** How does the bread become spongy ?



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**53.** Answer the following questions:

Which microbes are used in the baking industries?



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



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**55.** Which fuels can be obtained by microbial processes ? Why is it necessary to increase the use of such fuels ?



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



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**57.** There is an oil layer on the water surface of river in your area. What will you do?



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



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**59.** What is role of microbes in compost production ?





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**60.** Explain the importance of biopesticides in organic farming.



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**61.** Which plants are cultivated to obtain the fuel ?



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**62.** Which fuels are obtained from biomass ?



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



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



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



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**66.** Answer the following questions:

How are microbes used in sewage management?



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**67.** Answer the following questions:

How is the sludge produced in this process utilized?



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**68.** Answer the following questions:

What is clean technology?



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**69.** Answer the following questions:

Why is it essential to ban plastic bags?



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**70.** 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 commercial basis ?



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**71.** Use your brain power. Food materials like cold drinks, ice creams, cakes, juices are available in various colours and flavours. Whether these colours and flavours are really derived from fruits ?



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**72.** Write short notes on Production of yoghurt.



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**73.** Write short notes on Production of yoghurt.



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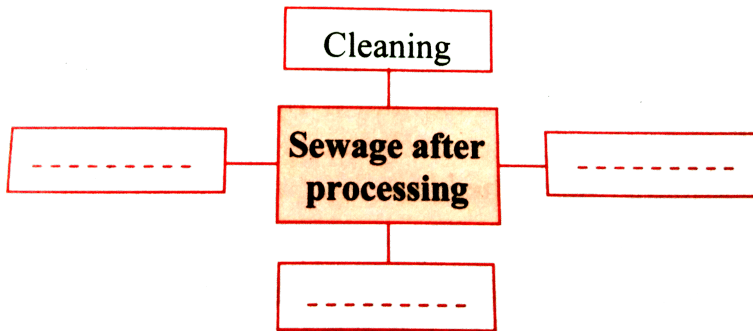
**74.** Write short notes on:

Land-filling sites.



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75. Complete the following conceptual picture.



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



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**77.** What is done with the segregated waste ?



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**78.** Which is most appropriate method of disposal of dry waste ?



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**79.** Complete the paragraph by choosing the appropriate words given in the brackets:

Complete the paragraph using proper words:

(mechanical, Rhizobium, aquatic, Toxic,  $\text{CO}_2$   
Nitrogen, Pseudomonas, Amoeba, bacteria,  
hydrocarbons)

Spilling of petroleum oil occurs in ocean due to various reasons. This oil may prove fatal and toxic to organisms. It is not easy to remove the oil layer from surface of water by ..... method. However, bacteria like ..... spp. and *Alcanovorax borkumensis* have the ability to destroy the pyridines and other chemicals. Hence. these ..... are used to clear the oil spills. These are called

hydrocarbonoclastic bacteria (HCB). HCB decompose the ... and bring about the reaction of carbon with oxygen. ... and water is formed in this process.



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**80.** Complete the paragraph by choosing the appropriate words given in the brackets:

(Nocardia, Geobacter, Ideonella sakaiensis,

Pseudomonas, Alcanovorax borkumensis,

hydrocarbonoclastic, Acidophillum,

streptomyces)

Bacteria like ..... spp. and ..... have the ability to destroy the pyridines and other chemicals. Hence, these bacteria are used to clear the oil spills. These are called ..... bacteria. It has been observed that species like Vibrio, ..... can decompose the PET. Similarly, species of fungi like ..... have ability of decomposing rubber from garbage. Sulphuric acid is source of energy for some species of bacteria like ..... Hence, these bacteria can control the soil pollution

occurring due to acid rain. .. ..... - convert the salts of uranium into insoluble salts.



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### **81. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Remediation is the process of removing dangerous or poisonous substances from the environment, or limiting the effect that they have on it. When any biological organism is

used for remediation, it is called bioremediation. When plant species are used for the purpose of remediation, it is called phytoremediation. When any microbes are used then it is named as microbial remediation. The methods of such remediation have helped to clean the environment from toxic effluents, especially sewage and crude oil]. Dr. Anand Chakraborty, a scientist of Indian origin, has worked on *Pseudomonas aeruginosa* which have reduced the crude oil films into carbon dioxide and

water.

What is the meaning of remediation?



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## **82. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Remediation is the process of removing dangerous or poisonous substances from the environment, or limiting the effect that they have on it. When any biological organism is

used for remediation, it is called bioremediation. When plant species are used for the purpose of remediation, it is called phytoremediation. When any microbes are used then it is named as microbial remediation. The methods of such remediation have helped to clean the environment from toxic effluents, especially sewage and crude oil]. Dr. Anand Chakraborty, a scientist of Indian origin, has worked on *Pseudomonas aeruginosa* which have reduced the crude oil films into carbon dioxide and water.



What is the difference between phytoremediation and microbial remediation?



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### **83. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Remediation is the process of removing dangerous or poisonous substances from the environment, or limiting the effect that they have on it. When any biological organism is

used for remediation, it is called bioremediation. When plant species are used for the purpose of remediation, it is called phytoremediation. When any microbes are used then it is named as microbial remediation. The methods of such remediation have helped to clean the environment from toxic effluents, especially sewage and crude oil]. Dr. Anand Chakraborty, a scientist of Indian origin, has worked on *Pseudomonas aeruginosa* which have reduced the crude oil films into carbon dioxide and water.

Which environmental pollutant is mainly removed through bioremediation processes?



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#### **84. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Remediation is the process of removing dangerous or poisonous substances from the environment, or limiting the effect that they have on it. When any biological organism is

used for remediation, it is called bioremediation. When plant species are used for the purpose of remediation, it is called phytoremediation. When any microbes are used then it is named as microbial remediation. The methods of such remediation have helped to clean the environment from toxic effluents, especially sewage and crude oil. Dr. Anand Chakraborty, a scientist of Indian origin, has worked on *Pseudomonas aeruginosa* which have reduced the crude oil films into carbon dioxide and

water.

What is the role of *Pseudomonas aeruginosa*?



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### **85. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Remediation is the process of removing dangerous or poisonous substances from the environment, or limiting the effect that they have on it. When any biological organism is

used for remediation, it is called bioremediation. When plant species are used for the purpose of remediation, it is called phytoremediation. When any microbes are used then it is named as microbial remediation. The methods of such remediation have helped to clean the environment from toxic effluents, especially sewage and crude oil. Dr. Anand Chakraborty, a scientist of Indian origin, has worked on *Pseudomonas aeruginosa* which have reduced the crude oil films into carbon dioxide and water.

Why Dr. Anand Chakraborty's work phenomenal?



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### **86. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Lady bug beetles are friends of farmers as they destroy harmful insects. It is a predatory insect which lives on biting worm, white fly, worm, white moth, flower insects and bread

worms. It acts as natural insecticide for crops like maize, jawar, cotton, sugarcane, cereals, vegetables, fruit trees, etc. These are attractive red or yellow or grey coloured insects. Many species of this insect are, found in our farms. The lifecycle of this insect follows: eggs, larvae, cocoon & moth stages. The eggs , found in flutter. The larvae are grey in colour. Larvae and adults both live on sucking insects.

How does the lady bug beetle live?



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## 87. Paragraph based Questions :

Read the paragraph and answer the questions given below :

Lady bug beetles are friends of farmers as they destroy harmful insects. It is a predatory insect which lives on biting worm, white fly, worm, white moth, flower insects and bread worms. It acts as natural insecticide for crops like maize, jawar, cotton, sugarcane, cereals, vegetables, fruit trees, etc. These are attractive red or yellow or grey coloured insects. Many species of this insect are found in our farms. The lifecycle of this insect follows: eggs, larvae,

cocoon & moth stages. The eggs , found in flutter. The larvae are grey in colour. Larvae and adults both live on sucking insects.

Of which colour the lady bug beetles are?



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### **88. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Lady bug beetles are friends of farmers as the destroy harmful insects. It is a predatory

insect which lives on biting worm, white fly worm, white moth, flower insects and bread worms. It acts as natural insecticide for crops like maize, jawar, cotton, sugarcane, cereals, vegetables, fruit trees, etc. These are attractive red or yellow or grey coloured insects. Many species of this insect are, found in our farms. The lifecycle of this insect follows: eggs, larvae, cocoon & moth stages. The eggs, found in flutter. The larvae are grey in colour. Larvae and adults both live on sucking insects.

State the stages of its lifecycle.



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## **89. Paragraph based Questions :**

Read the paragraph and answer the questions given below :

Lady bug beetles are friends of farmers as they destroy harmful insects. It is a predatory insect which lives on biting worm, white fly, worm, white moth, flower insects and bread worms. It acts as natural insecticide for crops like maize, jawar, cotton, sugarcane, cereals, vegetables, fruit trees, etc. These are attractive red or yellow or grey coloured insects. Many

species of this insect are, found in our farms.

The lifecycle of this insect follows: eggs, larvae, cocoon & moth stages. The eggs , found in flutter. The larvae are grey in colour. Larvae and adults both live on sucking insects.

How does it help the farmers?



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## **90. Paragraph based Questions :**

Read the paragraph and answer the, questions given below:

Sulphuric acid is present in the acid rain and materials coming out of mines . You know that erosion of metals present in statues, bridges and buildings occurs due to it. Sulphuric acid is a source of energy for some species of bacteria like *Acidophilum* spp. and *Acidobacillus ferrooxidans* Hence. these bacteria can control the soil pollution occurring due to acid rain water soluble salts of uranium are present in the wastes produced during electroplating and in effluent released in the environment from the atomic energy Plant. *Geobacter* convert these salts of

uranium into insoluble salts and thereby prevent those salts from mixing with groundwater sources.

What causes metal erosion in statues bridges and buildings?



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## **91. Paragraph based Questions :**

Read the paragraph and answer the questions given below:

Sulphuric acid is present in the acid rain and

materials coming out of mines . You know that erosion of metals present in statues, bridges and buildings occurs due to it. Sulphuric acid is a source of energy for some species of bacteria like *Acidophilum* spp. and *Acidobacillus ferrooxidans* Hence. these bacteria can control the soil pollution occurring due to acid rain water soluble salts of uranium are present in the wastes produced during electroplating and in effluent released in the environment from the atomic energy Plant. *Geobacter* convert these salts of uranium into insoluble salts and thereby



prevent those salts from mixing with groundwater sources.

Sulphuric acid is the source of energy for which bacteria?



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## **92. Paragraph based Questions :**

Read the paragraph and answer the questions given below:

Sulphuric acid is present in the acid rain and materials coming out of mines . You know that

erosion of metals present in statues, bridges and buildings occurs due to it. Sulphuric acid is a source of energy for some species of bacteria like *Acidophilum* spp. and *Acidobacillus ferrooxidans*. Hence, these bacteria can control the soil pollution occurring due to acid rain water soluble salts of uranium are present in the wastes produced during electroplating and in effluent released in the environment from the atomic energy Plant. *Geobacter* convert these salts of uranium into insoluble salts and thereby prevent those salts from mixing with

groundwater sources.

What kind of pollution do these bacteria control?



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### **93. Paragraph based Questions :**

Read the paragraph and answer the, questions given below:

Sulphuric acid is present in the acid rain and materials coming out of mines . You know that erosion of metals present in statues, bridges

and buildings occurs due to it. Sulphuric acid is a source of energy for some species of bacteria like *Acidophilum* spp. and *Acidobacillus ferrooxidans*. Hence, these bacteria can control the soil pollution occurring due to acid rain water soluble salts of uranium are present in the wastes produced during electroplating and in effluent released in the environment from the atomic energy Plant. *Geobacter* convert these salts of uranium into insoluble salts and thereby prevent those salts from mixing with groundwater sources.

What are the water soluble salts in nuclear power plants and in the process of electroplating?



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#### **94. Paragraph based Questions :**

Read the paragraph and answer the, questions given below:

Sulphuric acid is present in the acid rain and materials coming out of mines . You know that erosion of metals present in statues, bridges

and buildings occurs due to it. Sulphuric acid is a source of energy for some species of bacteria like *Acidophilum* spp. and *Acidobacillus ferrooxidans*. Hence, these bacteria can control the soil pollution occurring due to acid rain water soluble salts of uranium are present in the wastes produced during electroplating and in effluent released in the environment from the atomic energy Plant. *Geobacter* convert these salts of uranium into insoluble salts and thereby prevent those salts from mixing with groundwater sources.

Which bacteria prevent these salts from mixing with ground water by converting them into insoluble salts?



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**95.** Diagram based question:

Observe the diagram and answer the following questions:

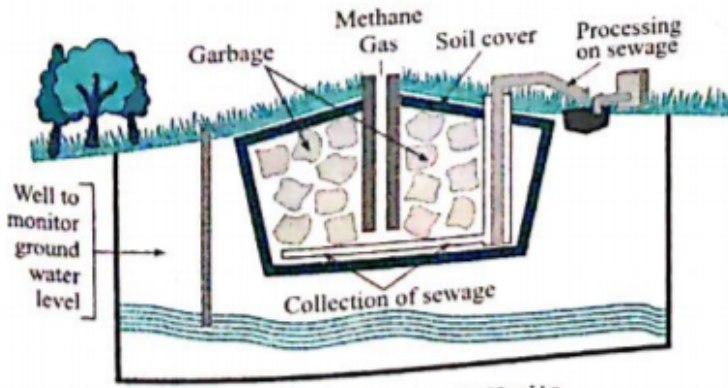


Fig. 7.1 : Modern landfill site

Name the following method of solid waste Management.



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**96.** Diagram based question:

Observe the diagram and answer the following questions:



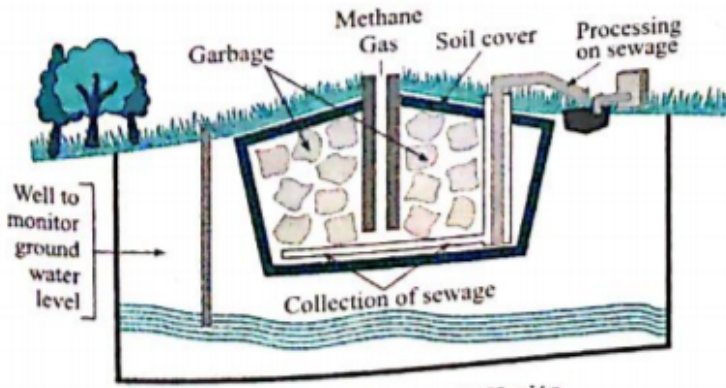


Fig. 7.1 : Modern landfill site

What type of waste is used in this method?



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**97. Diagram based question:**

Observe the diagram and answer the following questions:

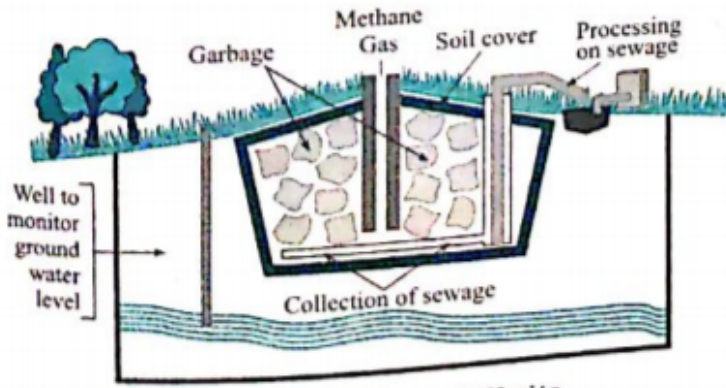


Fig. 7.1 : Modern landfill site

What kind of useful substances can be obtained from such methods?



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**98.** Diagram based question:

Observe the figure and answer the following questions:

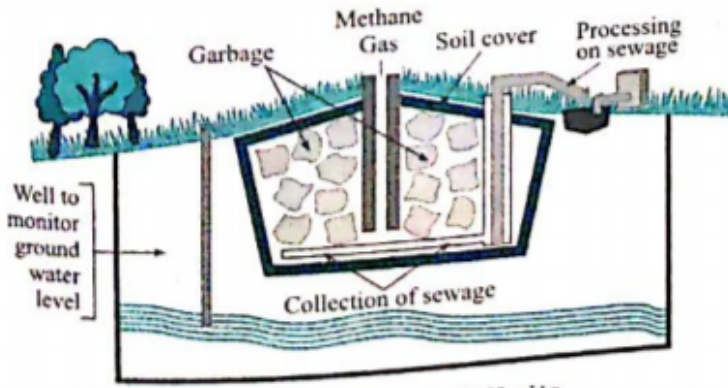


Fig. 7.1 : Modern landfill site

Identify the process shown in the figure.



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**99.** Diagram based question:

Write the answers to the questions by observing the figure



What type of fuel production process is shown in the figure?



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**100.** Diagram based question:

Write the answers to the questions by observing the figure



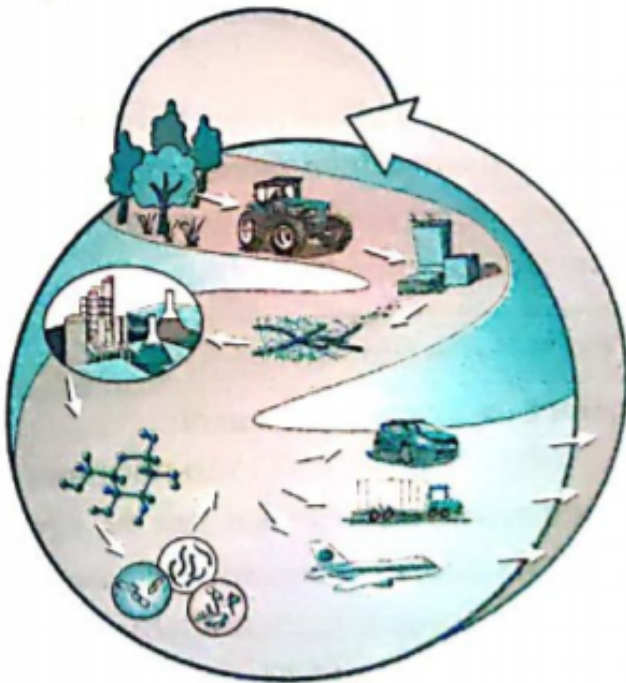
Write two examples each of the solid, liquid and gaseous fuels produced in this fuel production process?



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**101.** Diagram based question:

Write the answers to the questions by observing the figure



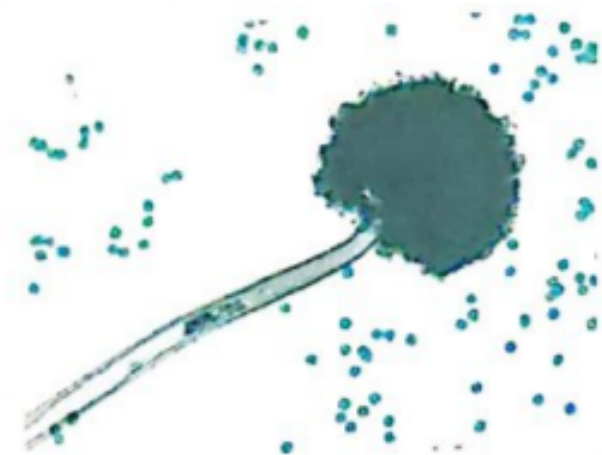
How do microorganisms play their role in this process?



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**102.** Diagram based question:

Observe the figure and write the answers to the questions asked.



Write the name of the fungus in the figure above.

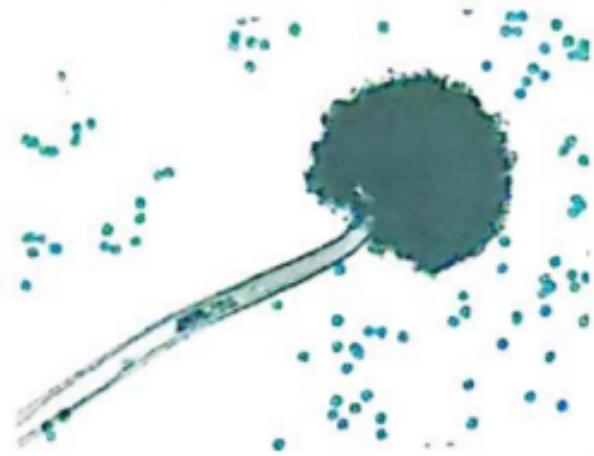


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**103.** Diagram based question:

Observe the figure and write the answers to the questions asked.





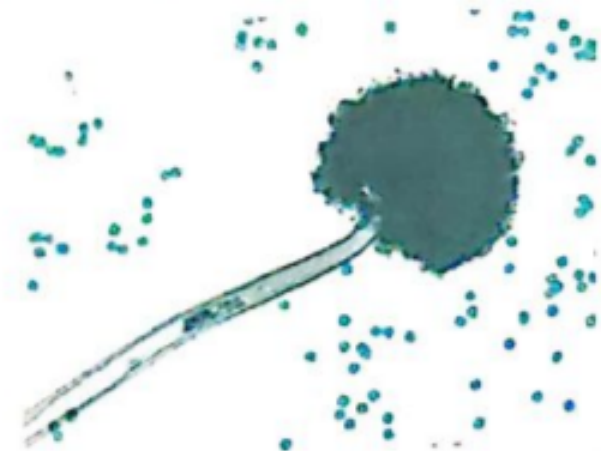
What is the source of these fungi?



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**104.** Diagram based question:

Observe the figure and write the answers to the questions asked.



Which organic acid obtained from this organism is used in commercial production?



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