



BIOLOGY

BOOKS - KUMAR PRAKASHAN KENDRA

BIOLOGY (GUJRATI ENGLISH)

MICROBES IN HUMAN WELFARE

**Section A Exam Oriented Questions Anwer From
Darpan Introduction**

1. Give general information about microbes.



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Section A Exam Oriented Questions Answer From Darpan Microbes In Household Products

1. How are microbes useful in household products ?



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Section A Exam Oriented Questions Answer From Darpan Microbes In Industrial Products

1. Into what microbes are grown for production in Industrial field ?



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2. How are microbes useful in fermented beverages ?



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3. Mention the contribution of microbes in making of antibiotics.



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4. How are microbes useful in industrial production of chemicals, enzymes and other bioactive molecules ?



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Section A Exam Oriented Questions Answer From Darpan Microbes In Sewage Treatment

1. What is sewage ? From what sewage water is passed before disposing?



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2. Explain the stages included in sewage treatment



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Section A Exam Oriented Questions Answer From Darpan Microbes In In Production Of Biogas

1. Describe contribution of microbes in production of biogas.



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2. Write a short note on : Biogas Plant



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Section A Exam Oriented Questions Answer From Darpan Microbes As Biocontrol Agents

1. What are biocontrol agents ?



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2. Explain Biological control of pests and diseases.



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3. Explain contribution of microbes in Bio-control of pests and diseases.



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Section A Exam Oriented Questions Anwer From Darpan Microbes As Biofertilisers

1. How are microbes useful in biofertilisers ?



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**Section B Difference Scientific Reason Give
Differences 2 Marks**

**1. Give difference between: Chemical fertilizer
and Bio fertilizer**



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**Section B Difference Scientific Reason Give
Scientific Reasons 2 Marks**

1. Given scientific reason Biogas plant is seen more in rural areas.



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2. Give scientific reason : The pressure on use of organic farming and biotic fertilizer has been increased.



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3. Given scientific reason In rumen of cattle, components having high cellulose amount get digested easily.



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**Section C Objective Questions Answers Match
The Columns 2 Marks**

1. Match the column

Column - I		Column - II	
(a)	Aspargillas Nizer	(1)	Lactic acid
(b)	Aceto bacter aciti	(2)	Citric acid
(c)	Clostridium butiricum	(3)	Acetic acid
(d)	Lacto bacillus	(4)	Buteric acid



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2. Match the column

Column - I		Column - II	
(a)	Mycorrhiza	(1)	Rhizobium
(b)	Bt	(2)	Nucleopolyhydro virus
(c)	Root nodules	(3)	Phosphorus
(d)	Baculo virus	(4)	Bt -Cotton



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3. Match the column

Column - I		Column - II	
(a)	Lady bird	(1)	Methano bacterium
(b)	Mycorrhiza	(2)	Trichoderma
(c)	Bio control	(3)	Aphides
(d)	Bioges	(4)	Glomus



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4. Match the column

Column - I		Column - II	
(a)	Statin	(1)	To remove oily stains
(b)	Cyclosporin A	(2)	To break blood clot
(c)	Straptokinase	(3)	To decrease Cholesterol in blood
(d)	Lipase	(4)	Compenent to reduce blood immunity



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1. Definition/explanation : Fermenters



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2. Definition/explanation : BOD



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3. Definition/explanation : Biofertiliser



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4. Definition/explanation : Methanogens



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5. Definition/explanation : Mycorrhiza



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Section D Textual Exercise

1. Bacteria cannot be seen with naked eyes, but these can be seen with the help of a microscope. If you have to carry a sample from your home to your biology laboratory to demonstrate the presence of microbes with the help of a microscope, which sample would you carry and why?



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2. Give examples to prove that microbes release gases during metabolism.



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3. In which food would you find lactic acid bacteria ? Mention some of their useful applications.



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4. Name some to traditional Indian foods made of wheat, rice and Bengal gram (or their products) which involve use of microbes.





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5. In which way have microbes played a major role in controlling diseases caused by harmful bacteria ?



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6. Name any two species of fungus, which are used in the production of the antibiotics.



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7. What is sewage ? In which way can sewage be harmful to us?



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8. What is the key difference between primary and secondary sewage treatment?



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9. Do you think microbes can also be used as source of energy? If yes, how ?



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10. Microbes can be used to decrease the use of chemical fertilisers and pesticides. Explain how this can be accomplished.



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11. Three water samples namely river water, untreated sewage water and subjected to BOD test. The samples were labelled A, B and C but the laboratory attendant did not note which was which. The BOD values of the three samples A, B and C were recorded as 20 mg/L, 8 mg/L and 400 mg/L respectively, which sample of the water is most polluted ? Can you assign the correct label to each assuming the river water is relatively clean?



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12. Find out the name of the microbes from which cyclosporin A (an immunosuppressive drug) and statins (blood cholesterol lowering agents) are obtained



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13. Find out the role of microbes in the following and discuss it with your teacher.

(a) Single Cell Protein (SCP) (b) Soil



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14. Arrange the following in the decreasing order (most important first) of their importance for the welfare of human society. Give reasons for your answer.



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15. How do biofertilisers enrich the fertility of the soil ?



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Section E Solution Of Ncert Exemplar Multiple Choice Questions

1. 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

A. Vitamin C

B. Vitamin D

C. Vitamin B_{12}

D. Vitamin E

Answer: C



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2. Wastewater treatment generates a large quantity of sludge, which can be treated by

(A) Anaerobic digesters

(B) Floc

(C) Chemicals

(D) Oxidation pond

A. Anaerobic digesters

B. Floc

C. Chemicals

D. Oxidation pond

Answer: A



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3. Methanogenic bacteria are not found in

A. Rumen of cattle

B. Gobar gas plant

C. Bottom of water-logged paddy fields

D. Activated sludge

Answer: D



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4. Match the following list of bacteria and their commercially important products.

(Bacterium)		(Product)	
(a)	Aspergillus niger	(1)	Lactic Acid
(b)	Acetobacter aceti	(2)	Butyric Acid
(c)	Clostridium butylicum	(3)	Acetic Acid
(d)	Lactobacillus	(4)	Citric Acid

A. (a - 2), (b - 3), (c-4), (d - 1)

B. (a - 2), (b- 4), (C-3), (d - 1)

C. (a - 4), (b - 3), (c-2), (d - 1)

D. (a - 4), (b - 1), (C-3), (d - 2)

Answer: C



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5. Match the following list of bioactive substances and their roles :

(Bioactive substances)		(Role)	
(a)	Statin	(1)	Removal of oil stains
(b)	Cyclosporin A	(2)	Removal of clots from blood vessels
(c)	Streptokinase	(3)	Lowering of blood cholesterol
(d)	Lipase	(4)	Immuno-suppressive agent

A. (a - 2), (b-3), (c-1), (d - 4)

B. (a - 4), (b-2), (c-1), (d - 3)

C. $(a - 4)$, $(b - 1)$, $(c - 2)$, $(d - 3)$

D. $(a - 3)$, $(b - 4)$, $(c - 2)$, $(d - 1)$

Answer: D



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6. The primary treatment of waste water involves the removal of

A. Dissolved impurities

B. Stable particles

C. Toxic substances

D. Harmful bacteria

Answer: B



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7. 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

A. Total organic matter

B. Biodegradable organic matter

C. Oxygen evolution

D. Oxygen consumption

Answer: D



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8. Which one of the following alcoholic drinks is produced without distillation ?

A. Wine

B. Whisky

C. Rum

D. Brandy

Answer: A



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9. The technology of biogas production from cow dung was developed in India largely due to the efforts of

A. Gas Authority of India

B. Oil and Natural Gas Commission

C. Indian Agricultural Research Institute
and Khadi and Village Industries
Commission

D. Indian Oil Corporation

Answer: C



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10. The free-living fungus *Trichoderma* can be used for

- A. Killing insects
- B. Biological control of plant diseases
- C. Controlling butterfly caterpillars
- D. Producing antibiotics

Answer: B



11. What would happen if oxygen availability to activated sludge flocs is reduced ?

(A) It will slow down the rate of degradation of organic matter.

(B) The centre of flocs will become anoxic, which would cause death of bacteria and eventually breakage of flocs.

(C) Flocs would increase in size as anaerobic bacteria would grow around flocs.

(D) Protozoa would grow in large numbers.

- A. It will slow down the rate of degradation of organic matter.
- B. The centre of flocs will become anoxic, which would cause death of bacteria and eventually breakage of flocs.
- C. Flocs would increase in size as anaerobic bacteria would grow around flocs.
- D. Protozoa would grow in large numbers.

Answer: B



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- 12.** Mycorrhiza does not help the host plant in
- (A) Enhancing its phosphorus uptake capacity
 - (B) Increasing its tolerance to drought
 - (C) Enhancing its resistance to root pathogens
 - (D) Increasing its resistance to insects

A. Enhancing its phosphorus uptake capacity

B. Increasing its tolerance to drought

C. Enhancing its resistance to root pathogens

D. Increasing its resistance to insects

Answer: D



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13. Which one of the following is not a nitrogen fixing organism ?

(A) Anabaena

(B) Nostoc

(C) Azotobacter

(D) Pseudomonas

A. Anabaena

B. Nostoc

C. Azotobacter

D. Pseudomonas

Answer: D



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14. Big holes in Swiss cheese are made by a

(A) machine

(B) bacterium that produces methane gas

(C) bacterium producing a large amount of carbon dioxide

(D) fungus that releases a lot of gases during its metabolic activities.

A. machine

B. bacterium that produces methane gas

C. bacterium producing a large amount of carbon dioxide

D. fungus that releases a lot of gases during its metabolic activities.

Answer: C



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15. The residue left after methane production from cattle dung is

(A) Burnt

(B) Buried in land fills

(C) Used as manure

(D) Used in civil construction

A. Burnt

B. Buried in land fills

C. Used as manure

D. Used in civil construction

Answer: C



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16. Methanogens do not produce

(A) Oxygen

(B) Methane

(C) Hydrogen sulphide

(D) Carbon dioxide

A. Oxygen

B. Methane

C. Hydrogen sulphide

D. Carbon dioxide

Answer: A



17. Activated sludge should have the ability to settle quickly so that it can

(A) Be rapidly pumped back from sedimentation tank to aeration tank

(B) Absorb pathogenic bacteria present in waste water while sinking to the bottom of the settling tank

(C) Be discarded and anaerobically digested

(D) Absorb colloidal organic matter

- A. Be rapidly pumped back from sedimentation tank to aeration tank
- B. Absorb pathogenic bacteria present in waste water while sinking to the bottom of the settling tank
- C. Be discarded and anaerobically digested
- D. Absorb colloidal organic matter

Answer: A



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18. Match the items in Column .A. and Column .B. and choose the correct answer.

Column - I		Column - II	
(a)	Ladybird	(1)	Methanobacterium
(b)	Mycorrhiza	(2)	Trichoderma
(c)	Biological control	(3)	Aphids
(d)	Biogas	(4)	Glomus

A. (a - 2), (b-4), (c-3), (d - 1)

B. (a - 3), (b-4), (c - 2), (d - 1)

C. (a - 4), (-1), (c-2), (d - 3)

D. (a - 3), (b - 2), (c-1), (d-4)

Answer: B



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Section E Solution Of Ncert Exemplar Very Short Answer Type Questions

1. Big holes in Swiss cheese are made by a

(A) machine

(B) bacterium that produces methane gas

(C) bacterium producing a large amount of carbon dioxide

(D) fungus that releases a lot of gases during its metabolic activities.



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2. What are fermentors ?



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3. Name a microbe used for statin production.

How do statins lower blood cholesterol level ?



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4. Why do we prefer to call secondary waste water treatment as biological treatment ?



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5. What for Nucleopolyhedro viruses are being used now a days?



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6. How has the discovery of antibiotics helped mankind in the field of medicine ?



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7. Why is distillation required for producing certain alcoholic drinks?



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8. Write the most important characteristic that *Aspergillus niger*, *Clostridium butylicum* and *Lacto bacillus* share.



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9. What would happen if our intestine harbours microbial flora exactly similar to that found in the rumen of cattle ?



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10. Give any two microbes that are useful in biotechnology



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11. What is the source organism for EcoRI, restriction endonuclease ?



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12. Name any genetically modified crop.





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13. Why are blue green algae not popular as biofertilisers ?



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14. Which species of Penicillium produces Roquefort cheese?



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15. Name the states involved in Ganga action plan.



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16. Name any two industrially important enzymes.



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17. Name an immunosuppressive agent.



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18. Give an example of a rod shaped virus.



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19. What is the group of bacteria found in both the rumen of cattle and sludge of sewage treatment ?



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20. Name a microbe used for the production of Swiss cheese.



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Section E Solution Of Ncert Exemplar Short Answer Type Questions

1. Why are flocs important in biological treatment of waste water ?



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2. How has the bacterium *Bacillus thuringiensis* helped us in controlling caterpillars of insect pests?



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3. How do mycorrhizal fungi help the plants harbouring them ?



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4. Why are cyanobacteria considered useful in paddy fields ?



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5. How was penicillin discovered ?



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6. Name the scientists who were credited for showing the role of Penicillin as an antibiotic.



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7. How do bioactive molecules of fungal origin help in restoring good health of humans ?



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8. What roles do enzymes play in detergents that we use for washing clothes? Are these enzymes produced from some unique microorganisms ?





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9. What is the chemical nature of biogas ?

Name an organism which is involved in biogas production.



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10. How do microbes reduce the environmental degradation caused by chemicals ?



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11. What is a broad spectrum antibiotic ? Name one such antibiotic.



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12. What are viruses parasitising bacteria called ? Draw a well labelled diagram of the same.



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13. Which bacterium has been used as a clot buster? What is its mode of action?



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14. What are biofertilizers ? Give two examples.



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Section E Solution Of Ncert Exemplar Long Answer Type Questions

1. Why is aerobic degradation more important than anaerobic degradation for the treatment of large volumes of waste waters rich in organic matter? Discuss.



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2. Discuss about the major programs that the Ministry of Environment and Forests, Government of India, has initiated for saving major Indian rivers from pollution.



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3. Ganga has recently been declared the national river. Discuss the implication with respect to pollution of this river.



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4. Draw a diagrammatic sketch of biogas plant and label its various components given below :
Gas Holder, Sludge Chamber, Digester, Dung + water chamber.



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5. Explain Biological control of pests and diseases.



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6. What would happen if a large volume of untreated sewage is discharged into a river ?



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7. In what way anaerobic sludge digestion is important in sewage treatments ?



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8. In which food would you find lactic acid bacteria ? Mention some of their useful applications.



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Section F Multiple Choice Questions Mcqs From Darpan Based On Textbook

1. From what antibiotics is mostly obtained ?

(A) Bacteria

(B) Actinomycetes

(C) Cyanobacteria

(D) (A) & (B) both

A. Bacteria

B. Actino mycitis

C. Cyano bacteria

D. (A) & (B) both

Answer: D



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2. Of what is biogas made ?

(A) Carbon monoxide, Methane and Hydrogen

(B) Carbon dioxide, Methane and Hydrogen

(C) Carbon dioxide, Ethane and Hydrogen

(D) Carbon monoxide, Ethane and Hydrogen

A. Carbon monoxide, Methane and Hydrogen

B. Carbon dioxide, Methane and Hydrogen

C. Carbon dioxide, Ethane and Hydrogen

D. Carbon monoxide, Ethane and Hydrogen

Answer: B



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3. By what milk is converted into curd ?

(A) Zanthomonas citri

(B) Lactobacillus acidophilus

(C) Acetobacter aceti

(D) None of the above

A. Zanthomonas citri

B. Lactobacillus acidophills

C. Acetobacter Aceti

D. None of the above

Answer: B



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4. What is included in IPM ?

(A) Bio control

(B) Bio fertilizer

(C) Tissue culture

(D) All of the above

A. Bio control

B. Bio fertiliser

C. Tissue culture

D. All of the above

Answer: A



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5. During formation of bread, due to production of CO_2 , by action of which microbe holes are made ?

(A) Yeast

(B) Bacteria

(C) Protozoa

(D) Virus

A. Yeast

B. Bacteria

C. Protozoa

D. Virus

Answer: A



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6. Find out the name of the microbes from which cyclosporin A (an immunosuppressive drug) and statins (blood cholesterol lowering agents) are obtained

A. Fungi

B. Bacteria

C. Virus

D. Plants

Answer: A



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7. The quality of which vitamin is increased by LAB?

(A) Vitamin A

(B) Vitamin B_{12}

(C) Vitamin B

(D) Vitamin C

A. Vitamin A

B. Vitamin B_{12}

C. Vitamin B

D. Vitamin C

Answer: B



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8. From what Beer is obtained ?

(A) Grape

(B) Apple

(C) Barley

(D) Mustard

A. Grape

B. Apple

C. Barley

D. Mustard

Answer: C



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9. Ladybird is useful to get rid of what?

(A) Aphid

(B) Mosquito

(C) Bollworm

(D) Given all

A. Aphid

B. Mosquito

C. Ballworm

D. Given all

Answer: A



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10. Which process in making of Idli and Dosa is due to LAB?

(A) Condensation

(B) Fermentation

(C) Decomposition

(D) (B) & (C) both

A. Condensation

B. Fermentation

C. Decomposition

D. (B) & (C) both

Answer: B



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11. What is prepared with the help of propioni bacterium ?

- (A) Swiss Cheese
- (B) Curd
- (C) Roque fort cheese
- (D) Butter

A. Swiss Cheese

B. Curd

C. Roque fort cheese

D. Butter

Answer: A



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12. Which microbe produces citric acid ?

(A) Aceti bacteria

(B) Aspergillus niger

(C) Clostridium

(D) Lactobacillus

A. Aceti bacteria

B. Aspergillus niger

C. Clostridium

D. Lactobacillus

Answer: B



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13. What is used in Laundry to remove oily blots?

(A) Protease

(B) Amaylase

(C) Lipase

(D) Cellulose

A. Protiase

B. Amaylase

C. Lipase

D. Cellulose

Answer: C



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14. What is used to decrease cholesterol in blood ?

(A) Stains

(B) Lipase

(C) Cyclosporin

(D) Insulin

A. Stains

B. Lipase

C. Cyclosporin

D. Insulin

Answer: A



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15. Instead of fossil fuel, efforts of which bio fuel to be used as energy, are in process ?

(A) Jetropha

(B) Musa

(C) Agilotus

(D) Ezadual

A. Jetropha

B. Musa

C. Agilotus

D. Ezadual

Answer: A



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16. Where is sedimentation of Floccs taking place in sewage process?

- (A) Aerobic tank
- (B) Sludge digesters
- (C) Settling tank
- (D) None

A. Aerobic tank

B. Sludge digesters

C. Settling tank

D. None

Answer: C



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17. Which bacteria are present in digestive tract of cattle ?

- (A) Rhizobium
- (B) Methanogenes
- (C) Acetobacter
- (D) Cellulose

A. Rhizobium

B. Methanogenes

C. Acetobacter

D. Cellulose

Answer: B



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18. Which element is absorbed by mycorrhiza ?

(A) Nitrogen

(B) Sulphur

(C) Manganese

(D) Phosphorus

A. Nitrogen

B. Sulphur

C. Manganese

D. Phosphorus

Answer: D



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19. Who was the first discoverer of antibiotic ?

(A) Misher

(B) Earnest chane

(C) Alexander Fleming

(D) Haward Floragan

A. Misher

B. Earnest chane

C. Alexander Fleming

D. Haward Floragan

Answer: C



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20. Which one of the following is not an antibiotic ?

A. Carbomycin

B. Bacitracin

C. Renin

D. Fumagillin

Answer: D



21. By the efforts of which institutes, biogas technology is developed ?

(A) IARI & KVIC

(B) IARI

(C) IARI & ICZN

(D) KVIC & ICZN

A. IARI & KVIC

B. IARI

C. IARI & ICZN

D. KVIC & ICZN

Answer: A



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22. Ashbya gossipae produces

A. Lipase

B. Riboflavin

C. Streptokinase

D. Steroid

Answer: B



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23. Match the following columns Column

Column - I		Column - II	
1.	lysine	(p)	Alternative energy sources
2.	Carbomycin	(q)	To make bread
3.	roduction of Methane	(r)	Antibiotic
4.	Saccharomyces cerevisiae	(s)	Amino acid

(A) 1 - p, 2 - s, 3 - q, 4 - r

(B) 1 - r, 2 - p, 3 - q, 4 - s

(C) 1 - s, 2 - p, 3 - q, 4 - r

(D) 1 - s, 2 - r, 3 - p, 4 - q



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24. Fertilizers applied to crop plants pollute :

(A) Soil resources

(B) Water resources

(C) Both (A) and (B)

(D) Atmosphere

A. Soil resources

B. Water resources

C. Both (A) and (B)

D. Atmosphere

Answer: C



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25. Which microorganisms are used to make drinks like wine, beer, whisky, brandy and rum ?

- (A) *Aspergillus niger*
- (B) *Acetobacter aceti*
- (C) *Rhizopus nigricans*
- (D) *Saccharomyces cerevisiae*

A. *Aspergillus niger*

B. *Acetobactor aceti*

C. *Rhizopus nigrans*

D. *Saccharomyces cerevisiae*

Answer: D



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26. What is produced through the yeast

Monascus purpureus?

(A) Statins

(B) Hydroxyprojesteron

(C) Cyclosporin A

(D) Streptokinase

A. Statins

B. Hydroxyprogesteron

C. Cyclosporin A

D. Streptokinase

Answer: A



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27. What is useful to prevent blood clotting in blood vessels?

(A) Streptokinase

(B) Cyclosporine

(C) Statins

(D) Hydroxyprojesteron

A. Streptokinase

B. Cyclosporine

C. Statins

D. Hydroxyprojesteron

Answer: A



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28. S-flocks use more portion of organic substances present in water.

R-As a result, in effluent, BOD increases.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: C



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29. Which of the following statements is false

?

(a) The effluent present in first tank is used for secondary treatment. (b) Physical particle are removed in second stage. (c) Secondary

treatment is a chemical process. (d) During Sedimentation, initially grit is removed.

- A. only (a)
- B. (a) and (c) only
- C. (b), (c) and (d)
- D. none of these

Answer: C



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30. Which of the following statements is not true for biogas?

(a) In village areas biogas plants are developed more

(b) Biogas is a mixture of gases which are used as fuel energy.

(c) Bacterial activities are used in biogas plants

(d) Methane is a major gas in biogas.

(A) only (a)

(B) (a) and (b)

(C) (a), (b) and (c)

(D) none of these

A. only (a)

B. (a) and (b)

C. (a), (b) and (c)

D. none of these

Answer: D



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31. Fungicides weed killer are prepared for: A. bacteria B. fungi C. virus D. all of these

A. Bacteria

B. Fungi

C. Virus

D. All of these

Answer: B



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32. IARI is....

(A) Indian Agricultural research Institute

(B) International Agricultural research
Institute

(C) Indian Agrochemical research Institute

(D) International Agrochemical research
institute

A. Indian Agricultural research Institute

B. International Agricultural research
Institute

C. Indian Agrochemical research Institute

D. International Agrochemical research
institute

Answer: A



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33. The factors which harm crops in field of agriculture are normally considered as

(A) Germs

(B) Pests

(C) Insects

(D) Weeds

A. Germs

B. Pests

C. Insects

D. Weeds

Answer: B



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34. S. Alexander Fleming was the discoverer of Penicillin

R - Fumagillin and hydroxyprogesterone are also antibiotics.

(A) Statement S&R both are true But R is explanation of S.

(B) Statement S&R both are true And R is not explanation of S.

(C) S. is true, .R. is false.

(D) S. is false, .R. is true.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: C



Watch Video Solution

35. What is the nutritional method of Anabaena ?

(A) Symbiotic

(B) Asymbiotic

(C) Heterotrophic

(D) Autotrophic

A. Symbiotic

B. Asymbiotic

C. Heterotrophic

D. Autotrophic

Answer: D



Watch Video Solution

36. S- Ensilage is a cattle food.

R- Ensilage is made by fermentation of carbohydrates in green plant tissue,

Statement S&R both are true But R is explanation of S.

Statement S&R both are true And R is not explanation of S.

S. is true, .R. is false.

S. is false, .R. is true.

A. Amylase

B. Cellulase

C. Ensilage

D. Carboxylase

Answer: C



Watch Video Solution

37. Which of the following is used as an immunosuppressive agent in organ transplant patients ?

(A) Cellulase

(B) Streptokinase

(C) Cyclosporine A

(D) Tetracycline

A. Cellulase

B. Streptokinase

C. Cyclosporine A

D. Tetracycline

Answer: C



Watch Video Solution

38. How flocks are made ?

- (A) By aerobic bacteria and filaments of fungi.
- (B) By anaerobic bacteria & algae
- (C) By algae and fungi
- (D) By bacteria and yeast

A. By aerobic bacteria and filaments of fungi.

B. By anaerobic bacteria & algae

C. By algae and fungi

D. By bacteria and yeast

Answer: A



Watch Video Solution

39. Opium is obtained from -

A. Sulphuric acid

B. Hydrochloric acid

C. Carbonic acid

D. Phosphoric acid

Answer: C



Watch Video Solution

40. Antibiotics inhibit the growth or destroy

(A) Bacteria and fungi

(B) Viruses

(C) Bacteria and viruses

(D) All of the above

A. Bacteria and fungi

B. Viruses

C. Bacteria and viruses

D. All of the above

Answer: A



Watch Video Solution

41. associated with filament of molds present in the water and form flocks.

(A) Aerobic bacteria

(B) Anaerobic bacteria

(C) Both (A) and (B)

(D) Algae

A. Aerobic bacteria

B. Anaerobic bacteria

C. Both (A) and (B)

D. Algae

Answer: A



Watch Video Solution

42. In which process Baker's yeast is used ?

- (A) To prepare bread
- (B) Nitrogen fixation
- (C) Production of biogas
- (D) Sewage treatment

A. To prepare bread

B. Nitrogen fixation

C. Production of biogas

D. Sewage treatment

Answer: A



Watch Video Solution

43. Assertion .A.: Photosynthetic microbes produce H_2 .

Reason .R.: Microbes are able to convert solar energy in to fuel energy that can be stored.

A. A and R are true and R is the correct explanation of A.

B. A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is true.

Answer: A



View Text Solution

44. When primary sludge is formed during sewage treatment?

A. First step

B. Second step

C. By Primary effluent

D. By sedimented substances

Answer: A



Watch Video Solution

45. Microbes inhabitant:

(A) only water

(B) water and soil

(C) water, soil, land, in a body

(D) water, soil, land, in a body and everywhere.

A. only water

B. water and soil

C. water, soil, land, in a body

D. water, soil, land, in a body and
everywhere.

Answer: D



Watch Video Solution

46. The ministry of forest and environment has initiated which action plan to save rivers from pollution ?

- (A) Ganga action plan
- (B) Yamuna action plan
- (C) Both (A) and (B)
- (D) None of the above

- A. Ganga action plan
- B. Yamuna action plan
- C. Both (A) and (B)
- D. None of the above

Answer: C



Watch Video Solution

47. Which substances is known as activated sludge.?

A. Effluent

B. Sedimented substances

C. Anaerobic sludge digesters

D. Mixed gases

Answer: B



Watch Video Solution

48. KVIC is related with :

(A) Dairy industry

(B) Biogas production

(C) Sewage treatment

(D) Both (A) & (B)

A. Dairy industry

B. Biogas production

C. Sewage treatment

D. Both (A) & (B)

Answer: B



Watch Video Solution

49. How effluent is treated in secondary treatment?

(A) Effluent is passed in aeration tank

(B) Effluent is constantly agitated

(C) Air is pumped

(D) All of the above

A. Effluent is passed in aeration tank

B. Effluent is constantly agitated

C. Air is pumped

D. All of the above

Answer: D



Watch Video Solution

50. is found in large number in the dung of cattle.

(A) LAB

(B) Penicillin

(C) Methanogens

(D) All the above

A. LAB

B. Penicillin

C. Methanogens

D. All the above

Answer: C



Watch Video Solution

51. What is used to remove weed in agriculture

?

(A) Insecticide

(B) Pesticides

(C) Weedicide

(D) Fungicides

A. Insecticide

B. Pesticides

C. Weedicide

D. Fungicides

Answer: C



Watch Video Solution

52. Which fungi is associated with mycorrhiza

?

(A) Azospirillum

(B) Glomus Spp.

(C) Pseudomonas Spp.

(D) All of these

A. Azospirillum

B. Glomus SP

C. Pseudomonas Sp

D. All of these

Answer: B



Watch Video Solution

53. In which part of India fermenting sap from palm tree is used in preparation of traditional drink?

- (A) East
- (B) West
- (C) North
- (D) South

A. East

B. West

C. North

D. South

Answer: D



Watch Video Solution

54. Less proportion of BOD in water is proportional to...?

(A) Proportion of water pollution is more

- (B) Proportion of water pollution is less
- (C) Quantity of organic substances is more
- (D) Water is not considered potable

- A. Proportion of water pollution is more
- B. Proportion of water pollution is less
- C. Quantity of organic substances is more
- D. Water is not considered potable

Answer: B



Watch Video Solution

55. Microorganisms live as a symbiotic association in leguminous plant.

(A) Rhizobium

(B) Baker's fungus

(C) Protozoans

(D) Virus

A. Rhizobium

B. Backer.s fungus

C. Protozoans

D. Virus

Answer: A



Watch Video Solution

56. IPM is.....

- (A) Indian Pest Control Management
- (B) Intimation Pest Control Management
- (C) Integrated Pest Control Management
- (D) Insect Pest Control Management

A. Indian Pest Control Management

B. Intimation Pest Control Management

C. Integrated Pest Control Management

D. Insect Pest Control Management

Answer: C



Watch Video Solution

57. Brandy is produced with the help of ...

(A) yeast

(B) bacteria

(C) mould

(D) virus

A. yeast

B. bacteria

C. mould

D. virus

Answer: A



Watch Video Solution

58. S- Ensilage is a cattle food.

R- Ensilage is made by fermentation of carbohydrates in green plant tissue,

Statement S&R both are true But R is explanation of S.

Statement S&R both are true And R is not explanation of S.

S. is true, .R. is false.

S. is false, .R. is true.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: A



Watch Video Solution

59. In a biogas plant, what is the depth of the concrete pit?

- (A) 5 to 7 metre
- (B) 3 to 5 metre
- (C) 2 to 4 metre
- (D) 7 to 9 metre

A. 5 to 7 metre

B. 3 to 5 metre

C. 2 to 4 metre

D. 7 to 9 metre

Answer: B



Watch Video Solution

60. Which of the following statements are true if about microbes ?

(P) Both bacteria and fungi are prokaryotes.

(Q) Except some microbes many microbes are useful to mankind

(R) Some food materials which we take in our daily diet are obtained by microbial process.

(S) Many products useful to mankind are synthesized at commercial level through microbes.

(A) (P) and (S)

(B) (Q), (R) and (S)

(C) (P), (Q) and (R)

(D) (P), (Q), (R) and (S)

A. (P) and (S)

B. (Q), (R) and (S)

C. (P), (Q) and (R)

D. (P), (Q), (R) and (S)

Answer: B



Watch Video Solution

61. Which of the following is a free-living fungus ?

(A) Pseudomonas

(B) Trichoderma

(C) Azospirillum

(D) Oscillatoria

A. Pseudomonas

B. Trichoderma

C. Azospirillum

D. Oscillatoria

Answer: B



Watch Video Solution

62. Which chemicals are available in market to remove pest, insects and fungi?

(A) Insecticides

(B) Pesticides

(C) Fungicides

(D) pesticides, Insecticides and fungicides

A. Insecticides

B. Pesticides

C. Fungicides

D. Insecticides, pesticides and fungicides

Answer: D



Watch Video Solution

63. Which bacteria are present in the stomach of the goat?

- (A) *E. coli*
- (B) *Rhizobium*
- (C) Methanogens
- (D) Streptomycin

A. *E. coli*

B. Rhizobium

C. Methanogens

D. Streptomycin

Answer: C



Watch Video Solution

64. From what Quantum-4000 is prepared ?

A. Trichoderma

B. Streptococcus

C. Pseudomonas

D. Baculo virus

A. Trichoderma

B. Streptococcus

C. Pseudomonas

D. Baculo virus

Answer: C



View Text Solution

65. What is *Rhizopus nigricans* ?

A. bacteria

B. virus

C. algae

D. fungi

Answer: D



Watch Video Solution

66. Who saves us from the harmful bacteria of the stomach ?

- (A) Lactospiral bacteria
- (B) Lactococcus bacteria
- (C) Clostridium bacteria
- (D) Lactobacillus bacteria

A. Lactospiral bacteria

B. Lactococcus bacteria

C. Clostridium bacteria

D. Lactobacillus bacteria

Answer: D



Watch Video Solution

67. S-Still pollution has not been solved by sewage treatment plant

R- Still there are not enough sewage treatment plants according to human population.

(A) Statement S&R both are true But R is explanation of S.

(B) Statement S&R both are true And R is not

explanation of S.

(C) S. is true, .R. is false.

(D) S. is false, .R. is true.

A. Statement S&R both are true But R is
explanation of S.

B. Statement S&R both are true And R is
not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: A





Watch Video Solution

68. In production of which thing fermentation is not done?

(A) N_2 fixing

(B) Ensilage

(C) Pickel

(D) Toddi-drink

A. N_2 fixing

B. Ensilage

C. Pickel

D. Toddi-drink

Answer: A



Watch Video Solution

69. Mycorrhiza help in absorption of:

A. Sulphur

B. Phosphorus

C. Calcium

D. Iron

Answer: B



Watch Video Solution

70. What is called the purification method of dirty water in urban areas by municipality ?

- (A) Water treatment
- (B) Sewage treatment
- (C) Dirty Water treatment
- (D) Water purification

A. Water treatment

B. Sewage treatment

C. Dirty Water treatment

D. Water purification

Answer: B



Watch Video Solution

71. Which one is antibiotic from the followings?

(A) Fumagillin

(B) Glycine

(C) Anacin

(D) Mycin

A. Fumagillin

B. Glycine

C. Anacin

D. Mycin

Answer: A



Watch Video Solution

72. Who is responsible for fermentation in dough of dosa, idlis like food dish ?

A. Fungus

B. Bacteria

C. Protozoa

D. Virus

Answer: B



Watch Video Solution

73. The main sources of biofertilisers are

A. Rhizobium like bacteria

B. Cyanobacteria

C. Fungi

D. All of these

Answer: D



Watch Video Solution

74. Which is the correct statement ?

(A) During the sewage treatment also, biogas is produced and it is useful as fuel energy.

(B) In biogas plant, in decaying medium, the fungus grows

(C) Through biogas fuel energy is obtained but fertilizer is not obtained.

(D) Fermentation process of microorganisms useful to make protein & fact

A. During the sewage treatment also,
biogas is produced and it is useful as

fuel energy.

B. In biogas plant, in decaying medium, the fungus grows

C. Through biogas fuel energy is obtained but fertilizer is not obtained.

D. Fermentation process of microorganisms useful to make protein & fact

Answer: A



View Text Solution

75. Assertion : Large number of methanogens bacteria are found in dung of cattle.

Reason : The excreta (dung) is used to prepare biogas.

(A) Assertion and Reason are true and Reason is the correct explanation of Assertion.

(B) Assertion and Reason are true but Reason is not the correct explanation of Assertion

(C) Both Assertion and Reason are false.

(D) Assertion is true but reason is false

A. Assertion and Reason are true and Reason is the correct explanation of Assertion.

B. Assertion and Reason are true but Reason is not the correct explanation of Assertion

C. Both Assertion and Reason are false.

D. Assertion is true but reason is false

Answer: A



Watch Video Solution

76. Cyclosporin A is produced by the fungus

A. *Monascus purpureus*

B. *Streptococcus*

C. *Arabis gossypifolia*

D. *Acetobacter aceticus*

Answer: A



View Text Solution

77. Bakers yeast is

A. *Saccharomyces cerevisiae*

B. *Aspergillus*

C. *Rhizopus*

D. *Zamia pygmaea*

Answer: A



Watch Video Solution

78. When BOD of sewage is reduced significantly the effluent is passed into a

A. Aeration tank

B. settling tank

C. Anaerobic sludge digester

D. underground digester tank

Answer: B



Watch Video Solution

79. What is useful in making of streptokinase ?

- A. Staphylococcus bacteria
- B. Azospirillum bacteria
- C. Streptococcus bacteria
- D. Clostridium bacteria

Answer: A



Watch Video Solution

80. is prepared from a fermentation of carbohydrates in green plant tissue.

A. Pickles

B. Cheese

C. Ensilage

D. None

Answer: C



Watch Video Solution

81. Which product is obtained from *Clostridium butyricum* ?

A. Butanol

B. Butyric Acid

C. riboflavin

D. Acetic Acid

Answer: B



Watch Video Solution

82. S-The herbivorous animal take food having cellulose.

R - In the intestine of herbivores animals, the bacteria able to digest cellulose are present.

(A) Statement S&R both are true But R is explanation of S.

(A) Statement S&R both are true And R is not explanation of S.

(C) S. is true, .R. is false.

(D) S. is false, .R. is true

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true

Answer: A



Watch Video Solution

83. Which branch of biology does human welfare by microorganisms?

A. Technology

B. Dairy technology

C. Agriculture

D. Genetic Engineering

A. Technology

B. Dairy technology

C. Agriculture

D. Genetic Engineering

Answer: D



Watch Video Solution

84. Ensilage is food for.....

(A) Human

(B) Cattle

(C) Birds

(D) Microbes

A. Human

B. Cattle

C. Birds

D. Microbes

Answer: B



Watch Video Solution

85. Carbomycin, bacitracin and fumagillin are

(A) Vaccines

(B) Antibiotics

(C) Alcohol

(D) Steroids

A. Vaccines

B. Antibiotics

C. Alcohol

D. Steroids

Answer: B



Watch Video Solution

86. What is the use of Brewers Yeast?

(A) Production of ethanol from the extract of cereals and fruits

(B) Production of Methane

(C) Production of Biogas

(D) Production of Antibiotic

A. Production of ethanol from the extract
of cereals and fruits

B. Production of Methane

C. Production of Biogas

D. Production of Antibiotic

Answer: A



Watch Video Solution

87. Where do bacteria grow in biogas plant?

(A) in excreta

(B) decaying material

(C) excreta or decaying material

(D) cellulosic material

A. Statement A and Statement B are true
and statement B is correct explanation
of A.

B. Statement A and statement are true but statement B is not the correct explanation of A.

C. Statement A is true but statement B is false.

D. Both statement A and statement B are false.

Answer: C



Watch Video Solution

88. Assertion : Microorganisms such as lactobacillus and others commonly called lactic acid bacteria (LAB) grow in milk and convert it to curd.

Reason : During growth, these bacteria produce acids that coagulate and partially digest the milk proteins

(A) If both assertion and reason are true and reason is the correct explanation of assertion.

(B) If both assertion and reason are true but reason is not the correct explanation of assertion.

(C) If assertion is true but reason is false.

(D) If both assertion and reason are false.

A. If both assertion and reason are true and reason is the correct explanation of assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

Answer: A



Watch Video Solution

89. Which metabolic process occurs by methanogenic bacteria, in the biogas plant?

(A) Anaerobic Respiration

(B) Photosynthesis

(C) Internal Respiration

(D) Cellular Respiration

A. Anaerobic Respiration

B. Photosynthesis

C. Internal Respiration

D. Cellular Respiration

Answer: A



Watch Video Solution

90. S - In production of riboflavin, fermentation is done by fungus.

R- Bacteria are useful in acetic acid production.

(A) Statement S&R both are true But R is

explanation of S.

(B) Statement S&R both are true And R is not explanation of S.

(C) S. is true, .R. is false.

(D) S. is false, .R. is true.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: B



Watch Video Solution

91. Curd is prepared by adding small amount of in required milk.

(A) Curd

(B) Butter milk

(C) Curd or buttermilk

(D) None

A. Curd

B. Butter milk

C. Curd or buttermilk

D. None

Answer: C



Watch Video Solution

92. Which of the following, decreases the crop production ?

(A) Insects

(B) Fungi

(C) Bacteria

(D) All of these

A. Insects

B. Fungi

C. Bacteria

D. All of these

Answer: D



Watch Video Solution

93. The greater the BOD of waste water.....

(A) less the pollutants

(B) more the pollutant

(C) more CO_2

(D) less CO_2

A. less the pollutants

B. more the pollutant

C. more CO_2

D. less CO_2

Answer: B



Watch Video Solution

94. S - Production of lactic acid occurs through lacto bacteria.

R - Lactobacillus is useful in making curd from milk.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: B



Watch Video Solution

95. Lactobacillus produces.....

(A) Butyric acid

(B) Lactic Acid

(C) Acetic acid

(D) Carbonic acid

A. Butaric acid

B. Lactic Acid

C. Acetic acid

D. Carbonic acid

Answer: B



Watch Video Solution

96. Following is used in the production of leavened(swollen) bread

(A) Aspergillus

(B) Rhizopus

(C) Saccharomyces

(D) None

A. Aspergillus

B. Rhizopus

C. Saccharomyces

D. None

Answer: C



Watch Video Solution

97. Where cyclosporine A is used ?

- (A) To remove oily stains in laundry.
- (B) As an immunosuppressive agent
- (C) To decrease blood cholesterol
- (D) To prevent blood clotting in blood vessels.

A. To remove oily stains in laundry.

B. As an immunosuppressive agent

C. To decrease blood cholesterol

D. To prevent blood clotting in blood vessels.

Answer: B



Watch Video Solution

98. Which products are synthesized at commercial level through microbes ?

- (A) Beverages
- (B) Steroids
- (C) Wine
- (D) All of the above

A. Beverages

B. Steroids

C. Wine

D. All of the above

Answer: D



Watch Video Solution

99. add organic matter to the soil and increase fertility

A. Anabaena

B. Nostoc

C. Oscillatoria

D. Blue green algae

Answer: D



Watch Video Solution

100. are the result of lactic acid fermentation of fruits.

(A) Curd

(B) Pickle

(C) Cheese

(D) Ensilage

A. Curd

B. Pickle

C. Cheese

D. Ensilage

Answer: B



Watch Video Solution

101. In Herbivores, methanogens help in

A. Digesting cellulose

B. Digesting starch

C. Digesting fats

D. All the above

Answer: A



Watch Video Solution

102. LAB is used in preparation of

A. curd

B. dosa

C. Idli

D. all the above

Answer: D



Watch Video Solution

103. For which diseases antibiotics are discovered ?

(A) Whooping cough

(B) Plague

(C) Diphtheria

(D) All of the above

A. Whooping cough

B. Plague

C. Diphtheria

D. All of the above

Answer: D



Watch Video Solution

104. Which one of the following acids, was produced by fermentation ?

A. citric acid

B. lactic acid

C. acetic acid

D. all of the above

Answer: D



Watch Video Solution

105. Which microorganism is useful in the production of Cyclosporin A ?

- A. *Rhizopus nigricans*
- B. *Arabia gossipae*
- C. *Streptococcus bacteria*
- D. *Trichoderma polysporum*

Answer: D



Watch Video Solution

106. Assertion .A.: In village areas biogas plants are developed.

Reason .R.: Biogas is important for economy and cleanliness of the village area.

(A) Both assertion and reason are true and reason is the correct explanation of assertion.

(B) Assertion and reason are true but reason is not the correct explanation of assertion.

(C) Assertion is true and reason is false.

(D) Assertion is false and reason is true.

A. Both assertion and reason are true and reason is the correct explanation of assertion.

B. Assertion and reason are true but reason is not the correct explanation of assertion.

C. Assertion is true and reason is false.

D. Assertion is false and reason is true.

Answer: A



Watch Video Solution

107. Which bacteria are used to make curd from milk?

A. *Vibrio cholerae*

B. *Lactobacillus*

C. *Clostridium butyricum*

D. *Propionibacterium Shermanii*

Answer: B



Watch Video Solution

108. What is meant by mycorrhiza ?

- A. Symbiosis of algae and fungus
- B. Symbiosis of algae and plants
- C. Symbiosis of fungus and plants
- D. Symbiosis of bacteria and algae

Answer: C



Watch Video Solution

109. Statement .A.: Sewage water contains large amount of organic matter and microbes.

Statement .B.: Sewage water is treated through heterotrophic bacteria and the effluents is released to rivers.

(A) Statement A and statement B are true and statement B is the correct explanation of A

(B) Statement A is false and B is true.

(C) Statement A is true and B is false.

(D) Both statement A and B are false.

A. Statement A and statement B are true
and statement B is the correct
explanation of A

B. Statement A is false and B is true.

C. Statement A is true and B is false.

D. Both statement A and B are false.

Answer: A



Watch Video Solution

110. Methanogenic bacteria is used to produce

A. Ethane

B. Ethanol

C. Methane

D. Methanol

Answer: C



Watch Video Solution

111. Microbes are

A. protozoan

B. bacteria

C. fungi

D. all of the above

Answer: D



Watch Video Solution

112. Sewage treatment plant is divided into how many phases ?

A. One

B. Two

C. Three

D. Four

Answer: B



Watch Video Solution

113. S-L-lysine is amino acid

R- Renin is an enzyme produced by fungi.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. S. is true, .R. is false.

D. S. is false, .R. is true.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: B



Watch Video Solution

114. In free living state which bacteria fix atmospheric nitrogen?

(A) Glomus

(B) Mycorrhiza

(C) Rhizobium

(D) Azotobacter

A. Glomus

B. Mycorrhiza

C. Rhizobium

D. Azetobactor

Answer: D



Watch Video Solution

115. Which bacteria are known as LAB?

- (A) Lactospiral bacteria
- (B) Clostridium bacteria
- (C) Lactobacillus bacteria
- (D) Lactococcus bacteria

- A. Lactospiral bacteria
- B. Clostridium bacteria
- C. Lactobacillus bacteria
- D. Lactococcus bacteria

Answer: C



116. S-The herbivorous animal take food having cellulose.

R - In the intestine of herbivores animals, the bacteria able to digest cellulose are present.

(A) Statement S&R both are true But R is explanation of S.

(A) Statement S&R both are true And R is not explanation of S.

(C) S. is true, .R. is false.

(D) S. is false, .R. is true

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: A



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117. Which type of organisms are Nostoc ?

(A) Heterotrophic

(B) Symbiotic

(C) Autotrophic

(D) Parasite

A. Heterotrophic

B. Symbiotic

C. Autotrophic

D. Parasite

Answer: C



Watch Video Solution

118. The technology of biogas production from cow dung was developed in India largely due to the efforts of

A. IARI

B. KVIC

C. IVRI

D. Both (A) & (B)

Answer: D



Watch Video Solution

119. Name a microbe used for statin production. How do statins lower blood cholesterol level ?

- A. *Arabia gossipae*
- B. *Rhizopus nigracans*
- C. *Trichoderma polysporum*
- D. *Monascus purpureus*

Answer: D



Watch Video Solution

120. Which of the following is used in removing oily stains in laundry ?

A. Amylase

B. Lipase

C. Cellulose

D. Protease

Answer: B



121. In STPs, how many stages are there for water purification ?

(A) 2

(B) 3

(C) 4

(D) 5

A. 2

B. 3

C. 4

D. 5

Answer: B



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122. S - Mixed gases are produced in anaerobic sludge digesters

R- In aeration tank, bacteria doing anaerobic respiration work.

A.Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. S. is true, .R. is false.

D. S. is false, .R. is true.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: A



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123. In which of the following yeast is not used

?

(A) beer

(B) whisky

(C) rum

(D) none

A. beer

B. whisky

C. rum

D. none

Answer: D



Watch Video Solution

124. S- In free living state, Azospirillum do N_2 fixing, from the atmosphere.

R- In symbiotic state, Rhizobium do atmospheric N_2 fixing.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: B



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125. Which are symbiotic fungus, free living fungus symbiotic bacteria and free living bacteria respectively?

(A) Asabia, Glomus, Rhizobium, Pseudomonas

(B) Rhizobium, Glomus, Asabia, Azospirillum

(C) Azospirillum, Glomus, Azotobactor, Rhizobium

(D) Glomus, Trichoderma, Rhizobium, Azotobactor.

A. Asabia, Glomus, Rhizobium,
Pseudomonas

B. Rhizobium, Glomus, Asabia, Azospirillum

C. Azospirillum, Glomus, Azotobactor,
Rhizobium

D. Glomus, Trichoderma, Rhizobium,
Azotobactor.

Answer: D



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126. Which is not the correct statement ?

A. *Rhizopus nigricans* is fungus

B. By fermentation of microorganisms,
vitamins are obtained

C. Purification plants are known as STPs

D. By *Asabia gessipae*, Vit B_6 is obtained.

Answer: D



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127. What is the full name of BOD ?

(A) Biodegradable Oxygen Demand

(B) Biomedical Oxygen Demand

(C) Biological Oxygen Demand

(D) Biochemical Oxygen Demand

A. Biodegradable Oxygen Demand

B. Biomedical Oxygen Demand

C. Biological Oxygen Demand

D. Biochemical Oxygen Demand

Answer: D



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128. Sewage treatment plant is used to control which type of pollution ?

- (A) Soil
- (B) Land
- (C) Water
- (D) Air

A. Soil

B. Land

C. Water

D. Air

Answer: C



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129. Process of which substance by methanogens bacteria gives methane in a larger quantity ?

(A) Starch

(B) Cellulose

(C) Suberin

(D) Lignin

A. Starch

B. Cellulose

C. Suberin

D. Lignin

Answer: B



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130. LAB protect us from the adverse effect of harmful bacteria which are present in.....

A. Mouth

B, stomach

C. oesophagus

D. Intestine

A. mouth

B. stomach

C. oesophagus

D. intestine

Answer: B



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131. BOD means.....

(A) amount of oxygen needed for degradation
in water

(B) it is a measure of the organic matter in a
water

(C) it is a measure of inorganic matter in soil

(D) both (A) and (B)

- A. amount of oxygen needed for degradation in water
- B. it is a measure of the organic matter in a water
- C. it is a measure of inorganic matter in soil
- D. both (A) and (B)

Answer: D



Watch Video Solution

132. Match the column.

Column - I		Column - II	
1.	Aspergillus niger	(p)	Riboflavin
2.	Arabic Gossipe	(q)	Statins
3.	Trichoderma Polysporum	(r)	Citric acid
4.	Monascus purpureus	(s)	Cyclosporin-A

- (A) 1 - q, 2 - p, 3 - s, 4 - r
(B) 1 - p, 2 - s, 3 - r, 4 - q
(C) 1 - r, 2 - p, 3 - s, 4 - q
(D) 1 - r, 2 - s, 3 - q, 4 - p



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133. Which one is antibiotic ?

- (A) L-Lysine

(B) L- Malic acid

(C) Glycine

(D) Tetracycline

A. L-Lysin

B. L- Malic acid

C. Glycin

D. Tetracyclin

Answer: D



Watch Video Solution

134. Which gases are produced in anaerobic sludge digester?

- (A) Methane
- (B) Hydrogen sulphide
- (C) Carbon dioxide
- (D) All of the above

A. Methane

B. Hydrogen sulphide

C. Carbon dioxide

D. All of the above

Answer: D



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135. By the broad knowledge of which fields the microbes are used in different ways for human welfare?

- (A) Biotechnology and genetic engineering
- (B) Microbiology and Biostatistics
- (C) Biochemistry and Biostatistics
- (D) Biochemistry and Biophysics

A. Biotechnology and genetic engineering

B. Microbiology and Biostatistics

C. Biochemistry and Biostatistics

D. Biochemistry and Biophysics

Answer: A



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136. Whose fermentation occur in pickles ?

(A) Fermentation of Lactic acid

(B) Fermentation of Butyric acid

(C) Fermentation of Acetic acid

(D) Fermentation of Citric acid

A. Fermentation of Lactic acid

B. Fermentation of Butyric acid

C. Fermentation of Acetic acid

D. Fermentation of Citric acid

Answer: A



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137. Which pest control method is useful to fruit trees?

(A) Irrigation Method

(B) Fountain Method

(C) Weedicide Method

(D) Biological Control Method

A. Irrigation Method

B. Fountain Method

C. Weedicide Method

D. Biological Control Method

Answer: D



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138. Bio-pesticides are

(A) The chemicals which are used to destroy the pests.

(B) The living organism or their products which are used for the pest control.

(C) The organisms which destroy the crops.

(D) None of these

- A. The chemicals which are used to destroy the pests.
- B. The living organism or their products which are used for the pest control.
- C. The organisms which destroy the crops.
- D. None of these

Answer: B



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139. Match the following and choose the correct answer from the option.

Microbes		Acids	
(A) Acetobactor acetic	(1)	Lactic Acid	
(B) Clostridium	(2)	Citric Acid	
(C) Aspergillus niger	(3)	butyricum	
(D) Lactobacillus	(4)	Carbonic Acid	
	(5)	Acetic Acid	
		Butyric Acid	

(A) (A - 2) (B - 1) (C - 3) (D - 5)

(B) (A - 3) (B - 2) (C - 4) (D - 5)

(C) (A - 5) (B) - 4) (C - 2) (D - 1)

(D) (A - 4) (B - 5) (C - 2) (D - 1)

A. (A-2) (B-1) (C-3) (D-5)

B. (A-3) (B-2) (C-4) (D-5)

C. (A - 5) (B) - 4) (C-2) (D - 1)

D. (A - 4) (B-5) (C-2) (D - 1)

Answer: D



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140. Where do bacteria grow in biogas plant?

(A) in excreta

(B) decaying material

(C) excreta or decaying material

(D) cellulosic material

A. in excreta

B. decaying material

C. excreta or decaying material

D. cellulosic material

Answer: C



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141. Name a microbe used for the production of Swiss cheese.

A. *Aspergillus Niger*

B. *Acetobactor aceti*

C. Clostridium Butyricum

D. Propioni bacterium Sharmanii

Answer: D



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142. What is obtained through Trichoderma Polysporum yeast?

(A) Riboflavin

(B) Hydroxyprogesterone

(C) Streptokinase

(D) Cyclosporine A

A. Riboflavin

B. Hydroxyprogesteron

C. Streptokinase

D. Cyclosporine A

Answer: D



Watch Video Solution

143. Which organisms are used to make bread and beer?

A. bacteria

B. Protozoa

C. Virus

D. Yeast

Answer: D



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144. Acetic acid is produced by

- (A) *Aspergillus niger*
- (B) *Lactobacillus*
- (C) *Acetobacter aceti*
- (D) *Clostridium butyricum*

A. *Aspergillus niger*

B. *Lactobacillus*

C. *Acetobacter acetic*

D. *Clostridium butyricum*

Answer: C





145. S - Weedicides are chemically synthesized product.

R - Bioinsecticides are biologically synthesized product.

A. Statement S & R both are true But R is explanation of S.

B. Statement S & R both are true And R is not explanation of S.

C. S is true, R is false.

D. S is false, R is true.

A. Statement S&R both are true But R is explanation of S.

B. Statement S&R both are true And R is not explanation of S.

C. .S. is true, .R. is false.

D. .S. is false, .R. is true.

Answer: B



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146. Nitrogen fixation by Rhizobium can be improved with the supply of

A. Potassium

B. Phosphorus

C. Nitrogen

D. Calcium

Answer: C



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147. From which of the following is citric acid is obtained ?

- A. *Clostridium Butyricum*
- B. *Acetobactor Aceti*
- C. *Saccharomyces cerevisiae*
- D. *Aspergillus niger*

Answer: D



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148. Which is not a leguminous plant?

A. Gram

B. Pea

C. Ground nut

D. Wheat

Answer: D



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149. S- Ensilage is a cattle food.

R- Ensilage is made by fermentation of carbohydrates in green plant tissue,

Statement S&R both are true But R is explanation of S.

Statement S&R both are true And R is not explanation of S.

S. is true, .R. is false.

S. is false, .R. is true.

A. Carbohydrates

B. Lipid

C. Protein

D. Palm tree extract

Answer: A



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150. Who increases the organic substances in the soil ?

A. Oscillatoria

B. Cyanobacteria

C. Blue green algae

D. Nostoc

Answer: C



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151. What happens during the first stage of sewage treatment plant?

A. Aeration is done

B. Bacterial activity is allowed

C. Physical particles are removed

D. All the above

Answer: C



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152. Which drug is used to prevent cereal diseases and is prepared by pseudomonas bacteria ?

A. Quantam-40

B. Quantum-400

C. Quantum-40,000

D. Quantum-4000

Answer: D



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153. Assertion .A.: Lipase enzyme is produced through micro-organisms in industries.

Reason .R.: Lipases are used in Fermentation

A. A and R are true and R is the correct explanation of A.

B. A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. Both A and R are false.

Answer: C



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154. Match the following

Column - I	Column - II	Column - III
1. Monascus	(p) Cyclosporin-A	(w) To decrease cholesterol
2. Baculo	(q) Hydroxy progesterone	(x) Steroid
3. Rhizopus	(r) Statin	(y) Bio controller
4. Trichoderma	(s) Disease in insect	(z) Decrease immunity

(A) 1 - r - z, 2 - s - y, 3 - q - w, 4 - p - x

(B) 1 - r - w, 2 - s - y, 3 - q - x, 4 - p - z

(C) 1 - s - r, 2 - r - w, 3 - p - z, 4 - q - y

(D) 1 - p - z, 2 - q - y, 3 - r - w, 4 - s - x



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Section F Multiple Choice Questions Mcqs Asked In Competitive Exam

1. From given below which sentence is wrong?

- A. Products are synthesized at commercial level through microbes.
- B. In blood, protease is used to remove oily stains.
- C. Vitamins are prepared by fermentation process.
- D. Polysporum is a yeast.

Answer: B



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2. Which one is proper pair?

A. Rhizobium - Parasite on leguminous plant.s root system.

B. Mycorrhiza - absorbs and supply phosphorus to the plant

C. Yeast-Production of biogas

D. Filamentous fungus-Disease Ringworm

Answer: B



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3. The most common biofertilizer for rice crop is

A. An aquatic fern, Azolla

B. Trifolium Sp.

C. Sesbania rosteata

D. Bacillus polymer

Answer: A



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4. When there is a decrease in BOD ?

(A) When mass of organic matter is used.

(B) When organic matter increases.

(C) Decrease in the water level.

(D) When there is an increase in the O_2 quantity.

A. When mass of organic matter is used.

B. When organic matter increases.

C. Decrease in the water level.

D. When there is an increase in the O_2 quantity.

Answer: A



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5. Which fungus is biocontrol agent?

(A) Tricoderma

(B) Aspergillus

(C) Pseudomonas

(D) Penicillium

A. Tricoderma

B. Aspergillus

C. Pseudomonas

D. Penicillin

Answer: A



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6. Which of the following is a main component of biogas ?

A. Ammonia

B. Methane

C. Ethane

D. Butane

Answer: B



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7. Azolla is used as biofertilizer because it.

(A) multiplies very fast to produce massive biomass

(B) has association of nitrogen fixing rhizobium

(C) has association of nitrogen - fixing cyanobacteria.

(D) has association of mycorrhiza.

A. multiplies very fast to produce massive biomass

B. has association of nitrogen fixing rhizobium

C. has association of nitrogen - fixing cyanobacteria.

D. has association of mycorrhiza.

Answer: C



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8. Bio-pesticides are

(A) The chemicals which are used to destroy the pests.

(B) The living organism or their products which are used for the pest control.

(C) The organisms which destroy the crops.

(D) None of these

A. Chemical used to destroy pest

B. Living organism or its products used in
pest control

C. Living organism destroying crops

D. None above

Answer: B



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9. From which living organism penicillin is produced ?

(A) Fungus

(B) Bacteria

(C) Virus

(D) Algae

A. Fungus

B. Bacteria

C. Virus

D. Algae

Answer: A



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10. Which virus is responsible for biotic control of insects and arthropods?

- (A) Myxovirus
- (B) Retrovirus
- (C) Bactariophage virus
- (D) Baculovirus

A. Myxovirus

B. Retrovirus

C. Bacteriophage virus

D. Baculo virus

Answer: D



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11. In biogas plants one of these will be essential:

(A) Azolla

(B) Rhizobium

(C) Eichhornia

(D) Methanobacteria

A. Azolla

B. Rhizobium

C. Euchornia

D. Methanobacteria

Answer: D



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12. How flocks are made ?

(A) By aerobic bacteria and filaments of fungi.

(B) By anaerobic bacteria & algae

(C) By algae and fungi

(D) By bacteria and yeast

A. Bacteria and Yeast

B. Filaments of mould

C. Bacteria and effective filaments of mould

D. Algae and fungi

Answer: C



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13. Milk is spoiled or fermented by

(A) Rhizobium

(B) Lactobacillus

(C) Azotobacter

(D) Clostridium

A. Rhizobium

B. Lactobacillus

C. Azotobacter

D. Clostridium

Answer: B



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14. Quantum 4000 is effective pest for cereals and vegetable crops is prepared by which microbes ?

A. Bt cotton

B. Methanogens

C. Pseudomonas

D. Trichoderma

Answer: C



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15. During which process floc is formed ?

A. Sewage treatment

B. Biogas process

C. Primary process

D. Biotic control

Answer: A



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16. From which of the following is citric acid is obtained ?

A. *Aspergillus niger*

B. *Azotobactor*

C. *Candida*

D. None

Answer: A



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17. BOD is a parameter of.....

A. Organic substances present in water.

B. Industrial waste, which has been released in water ponds, river.

C. Proportion of CO which is combined with

Hb

D. During dark phase, required O_2

proportion in green plants

Answer: A



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18. With whom BOD is associated ?

A. Micro organisms

B. Organic Substances

C. A & B both

D. None

Answer: C



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19. The main sources of biofertilisers are

A. Symbiotic microbes

B. Only nitrogen fixative bacteria

C. Only nitrogen fixative cyanobacteria

D. Bacteria, cyanobacteria and fungus

Answer: C



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20. Which is not a proper pair ?

A. Yeast-Ethanol

B. Penicillium-Penicillin

C. Methanagons-Biogas

D. Streptococcus-Statins

Answer: D



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21. Which is the characteristic of Bt cotton ?

- (A) Increases immunity
- (B) Moderate production & longer fibres
- (C) More production & longer fibres
- (D) Resistant to various pests

A. Increases immunity

B. Moderate production & longer fibres

C. More production & longer fibres

D. Resistant to various pests

Answer: A



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22. What is true about Bt toxin ? (A) Bt protein exists as active toxin in the Bacillus. (B) The activated toxin enters the ovaries of the pest to sterilize it and thus prevent its

multiplication. (C) The concerned Bacillus has antitoxins. (D) The inactive protoxin gets converted into active form in the insect gut.

- A. Bt protein is an active poison in Bacillus
- B. Active poison enters in the egg of the pest and makes it infertile So, the reproduction of pest stops.
- C. Bacillus contains poisonous substance.
- D. It goes to the lumen of the digestive tract of the pest where due to its lethal

the pest dies.

Answer: D



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23. Which one is improper pair ?

(A) Yeast-Ethanol

(B) Penicillium - Antibiotic

(C) Methanogens-Biogas

(D) Streptococcus - Cyclosporine-A

A. Yeast-Ethanol

B. Penicillium - Antibiotic

C. Methanogens-Biogas

D. Streptococcus - Cyclosporin-A

Answer: D



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24. Find a true statement from the given below.

(a) Biogas is formed by methane, Hydrogen sulphide and carbon dioxide.

(b) The biogas is used as an energy fuel.

(c) In biogas CO_2 is synthesised in more quantity

(d) Methanogens bacteria occur in stomach of cattle.

(A) Only (a) and (b)

(B) Only (a), (b) and (d)

(C) Only (b) and (c)

(D) Only (c)

A. Only (a) and (b)

B. Only (a), (b) and (d)

C. Only (b) and (c)

D. Only (c)

Answer: B



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25. Which sentence is true for nitrogen fixation ?

A. Nitrogen \rightarrow Ammonia

B. Nitrogen \rightarrow Nitrates

C. Nitrogen \rightarrow Amino acid

D. Both (A) and (B)

Answer: D



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26. Who provides energy and light both ?

(A) Petro crop

(B) Biogas

(C) Energy crop

(D) All

A. Petro crop

B. Biogas

C. Energy crop

D. All

Answer: B



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27. Which acid is obtained from the fungus

Aspergillus niger?

A. Acetic acid

B. Citric acid

C. Butyric acid

D. Lactic acid

Answer: B



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28. By using which bacteria methane is produced ?

(A) Methanogenic bacteria

(B) Lactobacillus

(C) Methanocarpic bacteria

(D) Methilophills

A. Methanogenic bacteria

B. Lactobacillus

C. Methanocarpic bacteria

D. Methilophills

Answer: A



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29. Who was the first discoverer of antibiotic ?

(A) Misher

(B) Earnest chane

(C) Alexander Fleming

(D) Haward Floragan

A. L. Pasteur

B. R. Koch

C. W. Fleming

D. A. Flaming

Answer: D



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30. Which is a microbial insecticide ?

A. *Bacillus polymixa*

B. *B. Brevis*

C. *B. Subtilis*

D. *B. thuringiensis*

Answer: D



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31. Cheese and traditional drink Toddi are the products of which process?

(A) Distillation

(B) Pasturization

(C) Fermentation

(D) Dehydration

A. Distillation

B. Pasturization

C. Fermentation

D. Dehydration

Answer: C



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32. A sewage treatment process in which part of decomposer bacteria present in the wastes is recycled into the starting of the process is called

- (A) Cyclic treatment
- (B) Activated sludge treatment
- (C) Primary treatment
- (D) Tertiary treatment

A. Cyclic treatment

B. Activated sludge treatment

C. Primary treatment

D. Tertiary treatment

Answer: B



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33. Which of the following microbes serve as an important biofertiliser in paddy fields ?

A. Cynobacteria

B. Rhizobium

C. E. coli

D. Azotobactor

Answer: A



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34. Which microbes are used to make bread ?

(A) Lactobaccilus

(B) Saccharomyces cerevisiae

(C) Methenogen bacteria

(D) Penicillin

A. Lactobaccilus

B. Saccharomyces cerevisiae

C. Methenogen bacteria

D. Penicillin

Answer: B



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35. Which statement is wrong from given below ?

A. Floating waste is removed in sewage process.

B. The grits are removed in sewage process.

C. The flocks is produced in sewage process.

D. BOD is increased in sewage process.

Answer: D



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36. IPM (Integrated Pest Management)

involves.

(A) Biological Control

(B) Pesticides

(C) Confusion technique

(D) Biofertilizers

A. Biological Control

B. Pesticides

C. Confusion technique

D. Biofertilizers

Answer: A



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37. *Aspergillus niger* is commercially used to prepare

A. Lactic acid

B. Acetic acid

C. Citric Add

D. Vinegar

Answer: C



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38. Full name of LAB is

A. Laboratory

B. Library

C. Lactic acid bacteria

D. Lactic acid

Answer: C



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39. In production of what, *Bacillus thuringiensis* are used ?

A. Bio pesticide plant

B. Biofertilizer

C. Bio metrological

D. Bio-salts method

Answer: A



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40. The useful living organism in biogas plant is...

A. Agrobacterium

B. Methanogens

C. Azotobactor

D. Rhizobium

Answer: B



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41. Which of the following is a free-living aerobic and non-photosynthetic nitrogen fixing bacterium?

A. Rhizobium

B. Azotobacter

C. Anabaena

D. Mycorrhiza

Answer: C



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42. Biofertilizer means.....

A. cow dung and agricultural waste s

B. a crop showing fast growth

C. anabena and nostoc

D.

Answer: C



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43. Which of the following is provided to plant by fungi present in mycorrhiza?

A. chloride

B. carbonate

C. nitrate

D. phosphate

Answer: D



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44. Which nutrient is required to increase immunity in plant against pest as well as to sustain, against salinity and drought?

sulphur

potassium

phosphoorus

vinegar

A. Sulphur

B. Potassium

C. Phosphorus

D. Vinegar

Answer: C



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45. Identify the true statement

(A) methanobacterium are the bacteria present in the stomach of cattle

(B) biogas is a pure methane

(C) major part of sludge is transferred to bigger tank by pumping . Those tanks are known as anaerobic sludge digester

(D) due to bacterial reactions of aerobic bacteria on animal waste, biogas is produced .

A. methanobacterium are the bacteria present in the stomach of cattles

B. biogas is a pure methane

C. major part of sludge is transferred to bigger tank by pumping . Those tanks are known as anaerobic sludge digester

D. due to bacterial reactions of aerobic bacteria on animal waste, biogas is produced . S

Answer: C



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46. During sewage treatment, biogases are produced, which include

A. methane, hydrogen sulphide and carbon dioxide

B. methane, oxygen and hydrogen sulphide

C. hydrogen sulphide, methane and sulphur dioxide

D. hydrogen sulphide, nitrogen and methane

Answer: A



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47. Which gases are produced in anaerobic sludge digester?

- (A) Methane
- (B) Hydrogen sulphide
- (C) Carbon dioxide
- (D) All of the above

A. Methane and CO_2 only

B. Methane, hydrogen sulphide and CO_2

C. Methane, hydrogen sulphide and O_2

D. Hydrogen sulphide and CO_2

Answer: B



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48. Match the following list of microbes and their importance.

(A) <i>Saccharomyces cerevisiae</i>	(i) Production of immunosuppressive agents
(B) <i>Monascus purpureus</i>	(ii) Ripening of Swiss cheese
(C) <i>Trichoderma polysporum</i>	(iii) Commercial production of ethanol
(D) <i>Propionibacterium sharmanii</i>	(iv) Production of blood-cholesterol lowering agents

	(A)	(B)	(C)	(D)
(A)	3	4	1	2
(B)	4	3	2	1
(C)	4	2	1	3
(D)	3	1	4	2



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49. Biochemical Oxygen Demand (BOD) may not be a good index for pollution in water

bodies receiving effluents from

- A. domestic sewage
- B. dairy industry
- C. petroleum industry
- D. sugar industry

Answer: C



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50. Match column I with column II and select the correct option using the codes given below

Column - I		Column - II	
(A)	Citric acid	(i)	Trichoderma
(B)	Cyclosporin	(ii)	Clostridium
(C)	Statins	(iii)	Aspergillus
(D)	Butyric acid	(iv)	Monascus

- (A) (B) (C) (D)
- (A) 3 1 2 4
- (B) 3 1 4 2
- (C) 1 4 2 3
- (D) 3 4 1 2



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51. Which of the following is wrongly matched in the given table ?

	Microbe	Product	Application
(A)	Monascus purpureus	Statins	Lowering of blood cholesterol
(B)	Streptococcus	Streptokinase	Removal of clot from blood vessel
(C)	Clostridium butylicum	Lipase	Removal of oil stains
(D)	Trichoderma polysporum	Cyclosporin-A	Immunosuppressive drug



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52. Which of the following is correctly matched for the product produced by them?

A. *Acetobacter aceti* : Antibiotics

B. *Methanobacterium* : Lactic acid

C. *Penicillium notatum* : Acetic acid

D. *Saccharomyces cerevisiae* : Ethanol

Answer: D



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53. Which of the following in sewage treatment removes suspended solids?

A. Tertiary treatment

B. Secondary treatment

C. Primary treatment

D. Sludge treatment

Answer: C



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54. Conversion of milk to curd improves its nutritional value by increasing the amount of

A. Vitamin E

B. Vitamin D

C. Vitamin B_{12}

D. Vitamin A

Answer: C



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55. Match the following organisms with the products they produce

Column - I		Column - II	
(A)	Lactobacillus	(i)	Cheese
(B)	Saccharomyces cerevisiae	(ii)	Curd
(C)	Aspergillus niger	(iii)	Citric Acid
(D)	Acetobacter aceti	(iv)	Bread
		(v)	Acetic Acid

(A) (B) (C) (D) (A) (B) (C) (D)

(A) (ii) (iv) (v) (iii) (B) (ii) (iv) (iii) (v)

(C) (iii) (iv) (v) (i) (D) (ii) (i) (iii) (v)



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56. Which of the following is a commercial blood cholesterol lowering agent ?

A. cyclosporin

B. statin

C. streptokinase

D. lipases

Answer: B



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