

BIOLOGY

BOOKS - ARIHANT PRAKASHAN

MICROBES IN HUMAN WELFARE

Topic 1 Practice Questions 1 Mark Questions

1. Fill in the	blanks:	Fermentation	of milk sugar
·	is done	by Lactobacillu	JS

- A. glucose
- B. fructose
- C. sucrose
- D. lactose

Answer: D



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2. In secondary treatment of sewage in open bioreactors , the microorganisms grow and multiply to form _____

- A. manure
- B. compost
- C. sludge
- D. sediment

Answer: C



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3. In curd making, is useful in coagulation of milk protein.

- A. Penicillium
- B. Lactobacillus
- C. Saccharomyces
- D. Aspergillus

Answer: B



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4. Fill in the blanks: Yeast Acetobacter are both involved in the production of _____ from carbohydrate.

- A. penicillin
- B. cirate
- C. methane
- D. vinegae

Answer: D



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5. In ethyl alcohol production, the unicellular fungus, Penicillium is used.



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6. Citric acid is produced when fermentation is caused by (Lactobacillus, Aspergillus sp. Penicillium sp., Acetobacter sp.)



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7. Lipase enzyme is produced by the activity of

A. Trichoderma viridie

B. Rhizopus sp.

- C. Aspergillus sp
- D. None of the above

Answer: b



- **8.** The antibiotic Streptomycin is obtained from
 - A. Streptomyces griseus
 - B. Streptomyces aureofaciens

- C. Streptomyces nouresi
- D. Streptomyces notaium

Answer: A



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9. Fill in the blanks

Acetobactor converts to vinegar by

aerobic fermentation of legumes?



10.	Fill	In	The	blank	:	Ethanol	obtained	by
			fer	menta	tic	n is usec	l in industr	·у.



11. The from secondary treatment of sewage is generally released into water bodies.



12. Antibiotic tetracycline is obtained from Penicillium notatum,



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13. The first antibiotic to be extracted from bacterial culture was nystatin.



14. correct the statement if required Industrial production of organic acids through microbial cultures is due to the oxidation process by bacteria.



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Topic 1 Practice Questions 2 Mark Questions

1. Write a short note on alcoholic fermentation.

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



3. Write Shortnotes on: Microbes in industrial products



4. What gases are produced in anaerobic sludges digesters ?



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Topic 1 Practice Questions 3 Mark Questions

1. Differentiate between bakery and brewery .



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



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Topic 1 Practice Questions 7 Mark Questions

1. Answer within 200 words: Discuss how waste water treatment can be done.



2. Give a detailed account of industrial application of microbes.



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Topic Test 1

1. Milk enzyme that coagulates during curd formation is

A. protease

B. casein

C. rennin

D. pectinase

Answer: B



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2. Antibiotics are used to cure deadly diseases such as plague, whooping cough and diphtheria.



3. During the secondary treatment of primary effluents, the BOD level.......



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4. What is the commercial name of acetic acid?



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5. The process of involces beating and cooling of milk for inactivation of microbes .

6. An enzyme used for the clarifying bottled fruit juice.



7. During sludge digestion, bacteria produce gases like......



8. An organic acid produced by penicillium is



9. Write a short note on production of curd using microbes.



10. Write a note on treatment of sewage.





Topic 2 Practice Questions 1 Mark Questions

1. The major component of biogas is carbon dioxide.



2. Fill in the blank: In pest control of crop plants _____ has pesticidal properties.



3. Fill In The blank: BGA used in biological nitrogen fixation are called _____bacteria.



4. Fill In The blank: In biogas production bacteria are used.



5. In biogas, methane is produced due to the activities of nitrogen-fixing bacteria.



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6. What is called the accumulated microorganisms and organic matter in the treatment of sewage?



7. What is the major component of biogas?



8. What can be called the natural pest killing agent other than artificial chemical?



9. What is called the association between Rhizobium in the root system of legumes?



Topic 2 Practice Questions 2 Mark Questions

1. Write notes with 2 to 3 important points

Bacillus thuringiensis



2. Write Shortnotes on: Biocontrol agents



3. Write note on:

Biogas Production.



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Topic 2 Practice Questions 3 Mark Questions

1. Differentiate between Chemical Fertilizers and Biofertlizers.



2. Synthetic pesticides and Biopesticides



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Topic 2 Practice Questions 7 Mark Questions

1. Which one of the following microbes is used as biocontrol agent?



2. Explain how microbes are useful in pollution control and also in production of alternative source of energy.



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Topic Test 2

1. A major component of gobar gas is

A. ammonia

B. methane

- C. ethane
- D. butane

Answer: B



- 2. Which is a microbial insecticide?
 - A. Bacillus thuringiensis
 - B. subtills
 - C. polymyxa

D. laevis

Answer: A



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3. Answer in one word only

..... absorbs free nitrogen from the soil, air and converts it into salts of nitrogen compounds to enrich the soil nutrients.



4. What can be called the natural pest killing agent other than artificial chemical?



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5. In paddy fields, blue-green algae fix phosphorus to enrich the soil fertility.



6. Rhizobium is a bacteria that serves as biofertiliser.



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7. Write a short note on cyanobacteria as biofertiliser.



8. Write a short note on Trichoderma as a biocontrol agent.



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9. Difference between : Symbiotic nitrogen-fixation and Non Symbiotic nitrogen-fixation.



10. Write notes with 2 to 3 important points Bacillus thuringiensis



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Chapter Test

1. Organisms called methanogens are most abundant in a

A. polluted stream

- B. hot spring
- C. sulphur rock
- D. rumen of cattle

Answer: D



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2. Which of the following is mainly produced by the activity of anaerobic bacteria on sewage?

B. Biogas			
C. Laughing gas			
D. Propane			
Answer: B			
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3. Secondary sewage treatment is mainly a:			
A. chemical process			

A. Mustard gas

- B. biological process
- C. physical process
- D. mechanical process

Answer: B



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4. Choose the correct option

Which of the following products used in detergent industry is derived from Rhizopus sp?

- A. Protease
- B. Lipase
- C. Cellulase
- D. pectinase

Answer: B



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5. Name the molecules which are used as blood cholesterol lowering agents?



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6. Azospirillum and Azotobacter arebacteria.



7. are used as biocontrol agents to get rid of moquitoes.



8. Fill in the blanks

Viable biogas is produced in large vessels called



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9. Plants with mycorrhizal association show tolerance to and



10. Baculoviruses belonging to the genus ,Penicillin are used as agents of biological control .



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11. Mycorrhizae provide cobalt to the roots of plants.



12. Bacillus thuringiensis is a Gram-negative bacteria.



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13. correct the sentence if required

Baculoviruses are single-stranded RNA viruses.



14. Write short note on harmful effects of chemical pesticides.



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15. Write short note on enzymes produced by microbes.



16. What is the role of biotechnology in manipulating nitrogen -fixing property in crop plants?



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17. Differentiate between Biopesticides and biocontrol agents .



18. Differentiate between:Primary sludge and activated sludge



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19. Give a detailed account of industrial application of microbes.



20. Write a detailed account of biogas production.

