

Lesson 7: Introduction to Microbiology

(One mark questions)

Q. 1) Fill in the blanks

- 1) Theenzyme derived from fungi is used to make vegetarian cheese
- 2) Compounds like..... are formed because of Lactobacillus and curd gets a specific taste
- 3) will be considered a fuel of the future
- 4) Bacteria are responsible for the dissolution of manmade chemicals in the sewage or wastewater
- 5) Is effective against tuberculosis
- 6) Bacteria convert uranium to insoluble bases.
- 7) Is obtained by fermenting apple juice.

Q.2) Find the odd man out and provide an explanation for the same

- 1) Lactobacillus Acidophilus - Lactobacillus casei - Bifidobacterium bifidum - Streptococcus thermophilus
- 2) Lactobacillus lactis - Bifidobacterium bifidum - Lactobacillus cremoris - Streptococcus thermophilus
- 3) Dark chocolate - Miso soup - Wafers - Corn syrup
- 4) Vinegar - Soy sauce - Ketchup - Monosodium glutamate
- 5) Actinomycetes - Streptomyces - Norcadia - Yeast

Q .3) Find the co-relation and complete the pair

- 1) Bread: Baker's yeast :: Soya sauce:
- 2) Coffee: Coffea arabica: : Coco:
- 3) Oil-contaminated water: Alkanivorans:: waste rubber:.....

4) Conversion of metals to compounds: Thiobacillus :: Conversion of uranium:.....

Q. 4) Match the following

Column A	Column B
1) Xylitol 2) Citric	1) Microbial inhibitors 2) Give sweet taste 3) Gives sour taste 4) Biological treatment

Column A	Column B
1) Lycopene 2) Nisin	1) Microbial inhibitors 2) Gives sweet taste 3) Colour 4) Antibiotic

Column A	Column B
1) Vinegar 2) Xanthan gum	1) Polylactic 2) Ice cream and pudding 3) Acetic acid 4) Gives sweet flavour

Q. 5) State whether true or false

- 1) In a non-genetic technology, the genes in the cell are modified.
- 2) The genes from *Bacillus thuringiensis* are removed and added to the genes of cotton
- 3) With the help of transplantation, various high-quality crop species can be developed
- 4) A few years ago insulin was being obtained from horses.
- 5) Malaria is caused due to genetic abnormalities in the liver.
- 6) Water pollution and degradation of land cause the production of bacteria called *Pseudomonas*. And it can separate oil-based pollutants
- 7) Earthworms and fungus make elements like N, P, K available to the crops.
- 8) There exists no knowledge that will help us improve immunity using natural resources

Q.6) Give names or examples

- 1) Types of cheese
- 2) Microbes used in the process of making beverages
- 3) Microbial viruses
- 4) Microbes used for the production of Ajinomoto

Q. 7) Choose any one of the given options and complete the sentences

1. In order to make dairy products, the milk is first.....to kill any microorganisms in it.
 - a) Pasteurized b) Fermented c) Clotted/coagulated d) dissolved
2. The household, agricultural and industrial waste generated on a large scale can be to generate methane gas.

a) Oxidized b) Deoxidized c) Microbiological deoxidized d)
Decomposed

3. In modern landfills, waste is added with..... to increase the rate of decomposition of the waste

a) Microorganisms b) Bioreactors c) Fungi d) Worms

4. Microorganisms can be used forof the environment from the pollutants found in the sewage or wastewater

a) Protection b) Conservation c) Bio-treatment d) Dissolution

5. Microorganisms used to destroy the oil-based pollutants are called.....bacteria

a) Phenol oxidizing b) Decomposer c) Hydrocarbonoclastic d)
Disruptive

6.microorganisms convert uranium to insoluble bases.

a) Saccharomyces b) Thiobacillus c) Acidobacillus d) Geobacter

Q. 8) Give definitions of the following

1) Probiotics

2) Antibiotics

3) Bio-treatment