**Neha Malhotra**  **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **Class = 12th Biology Test**  **Max Marks :30**

**MICROBES IN HUMAN WELFARE**

1. Multiple choice questions : [ 1 X 5 = 5]
2. To starter or inoculum is added to the fresh milk in order to convert milk into curd and improves its nutritional quality by increasing :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Vitamin B12 | b) protein | c) Calcium | d) all of these |

1. Which of the following is used as clot buster for removing clot.

|  |  |  |  |
| --- | --- | --- | --- |
| a) ethanol | b) Statins | c) Cyclosporin - A | d) Streptokinase |

1. Which of the following bacteria is present in rumen of cattle?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Rhizobium | b) Azotobacter | c) Methanobacterium | d) Clostridium |

1. The most common fungal partners of mycorrhiza belongs to genus :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Azotobacter | b) Glomus | c) Azolla | d) Frankia |

1. A biocontrol agent used for pest butterfly caterpillars is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Trichoderma | b) BT | c) Pseudomonas | d) Rhizobium |

1. Why are drinks like Whiskey and Rum more intoxicating than wine? [ 1 ]
2. Why is curd more nutritious than milk? [ 1 ]
3. Why does a dough appear puffed up? [ 1 ]
4. How is the presence of cyanobacteria in the paddy fields beneficials to rice crops? [ 1 ]
5. (a) Why are the fruits juices bought from market clearer as compared to those made at home?

(b) Name the bioactive molecule produce by Trichoderma polysporum and mention its role.

[ 2 ]

1. How do mycorrhiza helps the plant to grow better? [ 2 ]
2. Name a free living and symbiotic bacterium that serve as biofertilizer. Why are they so called?

[ 2 ]

1. What is BOD? What does it mean if a water sample has more BOD? [ 2 ]
2. Name the genus to which Baculovirus belong. Describe their role in the integral pest management programmes [ 2 ]
3. What are methanogens? Name the animal they are present in and the role they play there. [ 3 ]
4. Explain the different steps involved in sewage treatment before it can be released into water bodies. [ 3 ]
5. Identify the following : [ 5 ]

|  |  |  |
| --- | --- | --- |
| Name of the organism | Product produced | Use in Human welfare |
| Streptococcus |  |  |
|  | Statin |  |
|  | Swiss cheese |  |
|  |  | Beverages and bread |
| Lactobacillus |  |  |

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1. Why is distillation required for producing certain alcoholic drinks? [ 1 ]
2. Mention the importance of lactic acid bacteria to humans other than settling milk into curd. [ 1 ]
3. Name the animal where methanogen bacteria are present in and the role they play there [ 1 ]
4. Name and write the type of microbe that helps in production of different kind of cheese. [ 2 ]
5. Mention the role of cyanobacteria as biofertilizers. [ 2 ]
6. How was penicillin discovered? [ 2 ]
7. How do mycorrhiza helps the plant to grow better? [ 2 ]
8. Explain the different steps involved in sewage treatment before it can be released into water bodies. [ 3 ]
9. What are biocontrol agents? Explain any 3 microbes used as biocontrol agent. [ 3 ]
10. State the medicinal value and the name of microbe that produce following bioactive molecules :

(i) Statins (ii) Cyclosporin – A. [ 3 ]