



INDIAN SCHOOL MUSCAT
SENIOR SECTION
DEPARTMENT OF BIOLOGY
CLASS XII
MICROBES IN HUMAN WELFARE
WORKSHEET- 16

- 1 Why does 'Swiss cheese' have big holes? 1
- 2 Why do we prefer to call secondary waste water treatment as biological treatment? 1
- 3 What for Nucleopolyhedro viruses are being used now a days? 1
- 4 Which species of Penicillium produces Roquefort cheese? 1
- 5 Match the following list of bacteria and their commercially important products: Bacterium Product (i) Aspergillus niger (a) Lactic acid (ii) Acetobacter aceti (b) Butyric acid (iii) Clostridium butylicum (c) Acetic acid (iv) Lactobacillus (d) Citric acid 2
- 6 How do mycorrhizal fungi help the plants harboring them? 2
- 7 What is the chemical nature of biogas. Name an organism which is involved in biogas production? 2
- 8 What are biofertilisers? Give two examples. 2
- 9 Explain the role of baculoviruses as biological control agents. Mention their importance in organic farming. 2
- 10 Name the blank spaces a, b,c and d in the table given below. 2

Type of microbe	Name	Commercial product
Fungus	a)	Penicillin
Bacterium	<i>Acetobacter aceti</i>	b)
c)	<i>Aspergillus niger</i>	Citric acid
Yeast	d)	Ethanol

- 11 During secondary treatment of primary effluent how does the significant decrease in BOD occur? 2
- 12 Why should biological control of pests and pathogens be preferred to the conventional use of chemical pesticides? Explain how the following microbes act as biocontrol agents. 3
- a) *Bacillus thuringiensis* b) Nucleopolyhedrovirus