

CBSE Class 12 Biology

Microbes in Human Welfare

Section 'A'

- Q. 1. Mention the information that the health workers derive by measuring BOD of a water body.**
- Q. 2. Name the enzyme produced by *Streptococcus* bacterium. Explain its importance in medical sciences.**
- Q. 3. What is economic value of Spirulina?**
- Q. 4. List the events that reduce the Biological Oxygen Demand (BOD) of a primary effluent during sewage treatment.**
- Q. 5. Write the scientific name of the microbe used for fermenting malted cereals and fruit juices.**

Section 'B'

- Q. 6. Mention the product and its use produced by each of the microbes listed below:
(i) Streptococcus. (ii) Lactobacillus. (iii) Saccharomyces Cerevisiae.**
- Q.7. Explain the different steps involved during primary treatment phase of Sewage.**
- Q. 8. (a) How do organic farmers control pests? Give two example.
(b) State the difference in their approach from that of conventional pest control methods.**

- Q.9. Name a genus of baculovirus. Why are they considered good biocontrol agents?**
- Q.10. Explain the significant role of the genus Nucleopolyhedrovirus in an ecological sensitive area.**
- Q.11. Describe how biogas is generated from activated sludge. List the components of biogas.**
- Q.12. Name the blank spaces a, b, c and d from the table given below:**

Type of Microbe	Scientific Name	Commercial Product
Bacterium	a	Lactic acid
Fungus	b	Cyclosporine A
C	monascus purpuras	Statin
Fungus	penicillium notatum	d

- Q.13. Name the microbes that help production of the following products commercially:**
- Statin
 - Citric acid
 - Penicillin
 - Butyric acid
- Q.14. Mention a product of human welfare obtained with the help of each one of the following microbes:**
- LAB
 - Saccharomyces cerevisiae
 - Propionibacterium sharmanii
 - Aspergillus Niger
- Q.15. Why is Rhizobium categorized as a 'symbiotic bacterium, How does it act as a biofertiliser?**

Q.16. Mention a product of human welfare obtained with the help of each one of the following microbes:

- (a) LAB
- (b) *Saccharomyces cerevisiae*
- (c) *Propionibacterium sharmanii*
- (d) *Aspergillus Niger*

**Q.17. (a) Which one of the following is the baker's yeast used in fermentation?
Saccharum barberi, *Saccharomyces cerevisiae*, Sonalika.**

(b) How does addition of a small amount of curd to fresh milk help formation of curd? Mention a nutritional quality that gets added to the curd.

Q.18. How does the application of the fungal genus, *Glomus*, to the agricultural farm increase the farm output?

Q.19. Name the blank spaces a, b, c and d in the table given below:

Type of Microbe	Name Product	Commercial
Fungus	a	Penicillin
Bacterium	<i>Acetobacter aceti</i>	B
C	<i>Aspergillus niger</i>	Citric acid
yeast	d	ethanol

Section 'C'

Q.20. State the medicinal value and the bioactive molecules produced by *Streptococcus*, *Monascus* and *Trichoderma*.

Q.21. What are methanogens? How do they help to generate biogas?

Q.22. Name the genus to which baculoviruses belong. Describe their role in the integrated pest management programmes.

Q.29. Write the source and the effect on the human body of the following drugs:

- (i) Morphine
- (ii) Cocaine
- (iii) Marijuana

Q.30. Identify a, b, c, d, e and f in the table given below:

Organism	Bioactive molecule	Use
1. <i>Meniscus perpureus</i> (yeast)	a	b
2. c	d	Antibiotic
3. e	Cyclosporine A	f

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