



Class 12 Biology | Microbes In Human Welfare

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. Milk becomes curd mainly through the activity of

- A. Plasmodium
- B. Bacteriophages only
- C. Lactic acid bacteria
- D. Methanogens

2. Lactic acid bacteria improve curd's nutritional quality by increasing

- A. Cellulose
- B. Starch
- C. Vitamin B12
- D. Uric acid

3. Bread dough rises because yeast produces

- A. Carbon dioxide
- B. Hydrogen sulphide only
- C. Nitrogen
- D. Oxygen

4. Brewer's yeast is commonly

- A. *Penicillium roqueforti*
- B. *Rhizobium leguminosarum*
- C. *Saccharomyces cerevisiae*
- D. *Aspergillus niger*

5. Large holes in Swiss cheese arise mainly from production of

- A. CO₂ by *Propionibacterium*
- B. Methane by yeast
- C. N₂ by viruses
- D. O₂ by algae

6. Industrial citric acid production commonly uses

- A. *Lactobacillus*
- B. *Acetobacter aceti*
- C. *Aspergillus niger*
- D. *Clostridium butylicum*

7. Streptokinase is used medically as a

- A. Digestive acid
- B. Clot-busting enzyme
- C. Vaccine against malaria
- D. Blood sugar hormone

8. Cyclosporin A, produced by a fungus, is used as an

- A. Oxygen carrier
- B. Contraceptive barrier
- C. Antacid
- D. Immunosuppressant

9. Statins lower cholesterol mainly by inhibiting an enzyme involved in its

- A. Transport through stomata
- B. Synthesis
- C. Excretion as oxygen
- D. Conversion to DNA

10. In sewage treatment, flocs are masses of bacteria associated with

- A. Fungal filaments
- B. Red blood cells
- C. Sand grains only
- D. Plant seeds

11. A fall in sewage BOD after aeration indicates

- A. Complete absence of every organism
- B. Increased toxic metal concentration necessarily
- C. More oxygen-consuming organic waste
- D. Reduced biodegradable organic load

12. Anaerobic sludge digesters commonly produce

- A. Only ozone
- B. Methane-rich biogas
- C. Pure oxygen
- D. Only nitrogen dioxide

13. Rhizobium benefits legumes mainly by

- A. Producing human insulin
- B. Digesting all roots
- C. Releasing oxygen at night
- D. Fixing atmospheric nitrogen

14. Mycorrhizae commonly improve plant uptake of

- A. Atmospheric oxygen only
- B. Phosphorus
- C. Urea from animal blood
- D. Haemoglobin

15. Baculoviruses are useful in biological control because of their

- A. Ability to replace fertilisers
- B. Universal toxicity to all vertebrates
- C. Narrow host specificity
- D. Production of all antibiotics

ANSWER KEY — check after completing all 15 questions

1.C 2.C 3.A 4.C 5.A 6.C 7.B 8.D 9.B 10.A 11.D 12.B 13.D 14.B 15.C