



# BIOLOGY

## BOOKS - TRUEMAN BIOLOGY

### NCERT Exemplar Questions +2 (MICROBES IN HUMAN WELFARE)

#### Mcqs

1. The vitamin whose content increases following the conversion of milk into curd by

lactic acid bacteria is

A. vitamin C

B. vitamin D

C. vitamin B12

D. vitamin E

**Answer: c**



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2. Wastewater treatment generates a large quantity of sludge, which can be treated by

A. digesters

B. activated sludge

C. chemicals

D. oxidation pond

**Answer: d**



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3. Methanogenic bacteria are not found in

A. rumen of cattle

B. gobar gas plant

C. bottom of water-logged paddy fields

D. activated sludge

**Answer: d**



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4. Match the following list of bacteria and their commercially important products

Choose the correct match

| Bacterium                          | Product          |
|------------------------------------|------------------|
| (i) <i>Aspergillus niger</i>       | (a) Lactic acid  |
| (ii) <i>Acetobacter aceti</i>      | (b) Butyric acid |
| (iii) <i>Clostridium butylicum</i> | (c) Acetic acid  |
| (iv) <i>Lactobacillus</i>          | (d) Citric acid  |

A. i b, ii c, iii d, iv a

B. i b, ii d, iii c, iv a

C. i d, ii C, iii b, iv a

D. id, ii a, iii C, iv b

**Answer: c**



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5. Match the following list of bioactive substances and their roles

Choose the correct match



A. i b, ii c, iii a, iv d

B. id, ii b, iii a, iv c

C. i d, ii a, iii b, iv C

D. i C, ii d, iii b, iv a

**Answer: d**



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**6.** The primary treatment of waste water involves the removal of

A. dissolved impurities

B. stable particles

C. toxic substances

D. harmful bacteria

**Answer: b**



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7. BOD of waste water is estimated by measuring the amount of

A. Total organic matter

B. Biodegradable organic matter

C. Oxygen evolution



D. Oxygen consumption

**Answer: d**



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**8. Which one of the following alcoholic drinks is produced without distillation ?**

A. Wine

B. Whisky

C. Rum

D. Brandy

**Answer: a**



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9. The technology of biogas production from cow dung was developed in india largely due to the efforts of

A. Gas Authority of India

B. Oil and Natural Gas Commission

C. Indian Agricultural Research Institute  
and Khadi & Village Industries  
Commission

D. Indian Oil Corporation

**Answer: c**



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**10.** The free-living fungus *Trichoderma* can be used for

A. killing insects

B. biological control of plant diseases

C. controlling butterfly caterpillars

D. producing antibiotics

**Answer: b**



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**11.** What would happen if oxygen availability to activated sludge flocs is reduced ?

- A. It will slow down the rate of degradation of organic matter
- B. The center of flocs will become anoxic, which would cause death of bacteria and eventually breakage of flocs
- C. Flocs would increase in size as anaerobic bacteria would grow around flocs.
- D. Protozoa would grow in large numbers

**Answer: b**



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12. Mycorrhiza does not help the host plant in

A. enhancing its phosphorus uptake capacity

B. increasing its tolerance to drought

C. enhancing its resistance to root pathogens

D. increasing its resistance to insects

**Answer: d**



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**13.** Which one of the following is not a nitrogen-fixing organism ?

A. Anabaena

B. Nostoc

C. Azotobacter

D. Pseudomonas

**Answer: d**



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14. Big holes in Swiss cheese are made by a

A. a machine

B. a bacterium that produces methane gas

C. a bacterium producing a large amount  
of carbon dioxide

D. Pseudomonas

**Answer: c**



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**15.** The residue left after methane production from cattle dung is

A. burnt

B. buried in land fills

C. used as manure

D. used in civil construction

**Answer: c**



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**16.** Methanogens do not produce

A. oxygen

B. methane

C. hydrogensulphide

D. carbon dioxide

**Answer: a**



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17. Activated sludge should have the ability to settle quickly so that it can

A. be rapidly pumped back from sedimentation tank to aeration tank

B. absorb pathogenic bacteria present in waste water while sinking to the bottom of the settling tank

C. be discarded & anaerobically digested

D. absorb colloidal organic matter

**Answer: a**



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**18.** Match the items in Column 'A' and Column 'B' and choose correct answer.

The correct answer is

| Column A                 | Column B               |
|--------------------------|------------------------|
| (i) Lady bird            | (a) Methano bacterium  |
| (ii) Mycorrhiza          | (b) <i>Trichoderma</i> |
| (iii) Biological control | (c) Aphids             |
| (iv) Biogas              | (d) <i>Glomus</i>      |

A. i d, ii a, iii b, iv c

B. i c, ii d, iii b, iv a

C. i d, ii a, iii b, iv c

D. i c, ii b, iii a, iv d

**Answer: b**



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**19.** Which one is the most important role of microorganism of the well being of humans?

A. 1)Sewage treatment

B. 2)Production of methane

C. 3)Biological control of plant disease

D. 4)Conversion of milk to curd .

**Answer:**



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