

Microbes in Human Welfare

NEET previous year questions · Biology

5 questions from the official papers: NEET 2026 (2), Re-NEET 2026 (1), NEET 2020 (2). Each is followed by its answer and a worked solution written by BrainIt. Generated on 23 October 2026.



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1. NEET 2026 · Q158

Match List I with List II

List I (Bioactive molecules)	List II (Importance)
P) Streptokinase	I) Immunosuppressive agent
Q) Statins	II) Removal of clots from the blood vessels
R) Lipases	III) Blood cholesterol-lowering agent
S) Cyclosporin A	IV) Detergent formulations

Choose the correct answer from the options given below.

- (1) P-II, Q-III, R-I, S-IV (2) P-IV, Q-III, R-II, S-I
(3) P-III, Q-II, R-IV, S-I (4) P-II, Q-III, R-IV, S-I

Answer (4)

Sol. Streptokinase is a clot buster that removes clots from blood vessels (P-II), statins are blood cholesterol-lowering agents (Q-III), lipases are used in detergent formulations (R-IV), and cyclosporin A is an immunosuppressive agent used in organ transplants (S-I). This gives P-II, Q-III, R-IV, S-I, which is option (4).

2. NEET 2026 · Q171

What is the reason behind production of large holes in 'Swiss Cheese'?

- (1) The production of large amount of CO_2 by *Propionibacterium sharmanii*
(2) The production of large amount of CO_2 by *Clostridium butylicum*
(3) The production of large amount of CO_2 and H_2 by lactic acid bacteria called *Lactobacillus*
(4) The production of large amount of CO_2 and H_2 by *Trichoderma polysporum*

Answer (1)

Sol. The large holes (eyes) characteristic of Swiss cheese are produced by large amounts of CO_2 released by the bacterium *Propionibacterium sharmanii* during ripening. *Clostridium* is associated with butyric acid production, *Lactobacillus* with curd formation, and *Trichoderma* is a fungus (source of cyclosporin A). Hence the correct reason is CO_2 from *Propionibacterium sharmanii*.

3. Re-NEET 2026 · Q136

Which of the following is used as a clot buster?

- (1) Streptokinase (2) Penicillin
(3) Cyclosporin A (4) Statins

Answer (1)

Sol. Streptokinase is produced by the bacterium *Streptococcus* and modified by genetic engineering; it dissolves the clots that block blood vessels in patients with myocardial infarction, which is why it is called a clot buster. The other three are also microbial products but with quite different uses. NCERT Class 12, Microbes in Human Welfare.

4. NEET 2020 · Q43

Match the following columns and select the correct option.

List I	List II
P) <i>Clostridium butylicum</i>	I) Cyclosporin A
Q) <i>Trichoderma polysporum</i>	II) Butyric acid
R) <i>Monascus purpureus</i>	III) Citric acid
S) <i>Aspergillus niger</i>	IV) Blood-cholesterol-lowering agent

- (1) P-II, Q-I, R-IV, S-III (2) P-I, Q-II, R-IV, S-III
(3) P-IV, Q-III, R-II, S-I (4) P-III, Q-IV, R-II, S-I

Answer (1)

Sol. *Clostridium butylicum* produces butyric acid; *Trichoderma polysporum* produces cyclosporin A; *Monascus purpureus* produces statins that lower blood cholesterol; and *Aspergillus niger* produces citric acid. Thus P-II, Q-I, R-IV, S-III. Chapter: Microbes in Human Welfare.

5. NEET 2020 · Q55

Which of the following is put into Anaerobic sludge digester for further sewage treatment?

- (1) Floating debris
- (2) Effluents of primary treatment
- (3) Activated sludge
- (4) Primary sludge

Answer (3)

Sol. Activated sludge, which contains microorganisms, is added to the anaerobic sludge digester to further break down organic matter in the sewage. Chapter: Microbes in Human Welfare.

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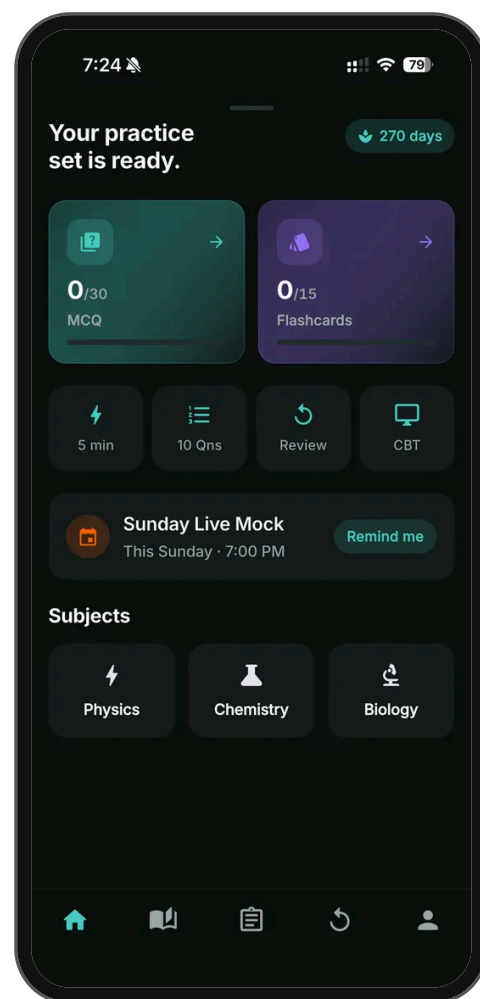
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