PYQSide PYQSide.com — free PYQs with solutions Powered by TestBlink

NEET MICROBES IN HUMAN WELFARE — MICROBES IN INDUSTRIAL PRODUCTS (FERMENTED BEVERAGES, ANTIBIOTICS, ENZYMES, BIOACTIVE MOLECULES) — PYQS

Max. Marks: 120 **Questions:** 30

Section A (MCQ) — 30 questions

Q.1 Match **List I** with **List II** : [NEET (UG) 2026]

List I (Bioactive molecules)		List II (Importance)	
A.	Streptokinase	I.	Immunosuppressive agent
B.	Statins	II.	Removal of clots from the blood vessels
C.	Lipases	III.	Blood cholesterol-lowering agent
D.	Cyclosporin A	IV.	Detergent formulations

(1) A-II, B-III, C-I, D-IV (2) A-III, B-II, C-IV, D-I
(3) A-II, B-III, C-IV, D-I (4) A-IV, B-III, C-II, D-I

Scan or tap for the full solution

Q.2 Which of the following is used as a clot buster? [RE-NEET (UG) 2026]

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

Scan or tap for the full solution

Q.3 Which of the following is an example of non-distilled alcoholic beverage produced by yeast? [NEET (UG) 2025]

(1) Beer (2) Rum (3) Whisky (4) Brandy

Scan or tap for the full solution

Q.4 Streptokinase produced by bacterium *Streptococcus* is used for [NEET (UG) 2025]

(1) Liver disease treatment
(2) Removing clots from blood vessels
(3) Curd production
(4) Ethanol production

Scan or tap for the full solution

Q.5 Match **List I** with **List II**

List - I		List - II	
A.	*Clostridium butylicum*	I.	Ethanol
B.	*Saccharomyces cerevisiae*	II.	Streptokinase
C.	*Trichoderma polysporum*	III.	Butyric acid
D.	*Streptococcus* sp.	IV.	Cyclosporin-A

Choose the correct answer from the options given below: [NEET (UG) 2024]

(1) A-III, B-I, C-II, D-IV (2) A-II, B-IV, C-III, D-I
(3) A-III, B-I, C-IV, D-II (4) A-IV, B-I, C-III, D-II

Scan or tap for the full solution

Q.6 Match **List-I** with **List-II** relating to microbes and their products:

List-I (Microbes)		List-II (Products)	
A.	*Streptococcus*	I.	Citric acid
B.	*Trichoderma polysporum*	II.	Clot buster
C.	*Monascus purpureus*	III.	Cyclosporin A
D.	*Aspergillus niger*	IV.	Statins

Choose the correct answer from the options given below: [RE-NEET (UG) 2024]

(1) A-II, B-III, C-IV, D-I (2) A-I, B-II, C-III, D-IV
(3) A-I, B-III, C-II, D-IV (4) A-I, B-IV, C-II, D-III

Scan or tap for the full solution

Q.7 Identify the microorganism which is responsible for the production of an immunosuppressive molecule cyclosporin A : [NEET (UG) 2022]

(1) *Trichoderma polysporum*
(2) *Clostridium butylicum*
(3) *Aspergillus niger*
(4) *Streptococcus cerevisiae*

Scan or tap for the full solution

Q.8 Match **List-I** with **List-II**

List-I		List-II	
a.	*Aspergillus niger*	i.	Acetic Acid
b.	*Acetobacter aceti*	ii.	Lactic Acid

List-I		List-II	
c.	*Clostridium butylicum*	iii.	Citric Acid
d.	*Lactobacillus*	iv.	Butyric Acid

Choose the correct answer from the options given below [NEET (UG) 2021]

(1) (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)
(2) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
(3) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
(4) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)

Scan or tap for the full solution

Q.9 Match the following columns and select the correct option. [NEET (UG) 2020]

Column-I		Column-II	
a.	*Clostridium butylicum*	i.	Cyclosporin-A
b.	*Trichoderma polysporum*	ii.	Butyric Acid
c.	*Monascus purpureus*	iii.	Citric Acid
d.	*Aspergillus niger*	iv.	Blood cholesterol lowering agent

(1) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)
(2) (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)
(3) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
(4) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

Scan or tap for the full solution

Q.10 Match the following organisms with the products they produce :

Column-I		Column-II	
a.	*Lactobacillus*	i.	Cheese
b.	*Saccharomyces cerevisiae*	ii.	Curd
c.	*Aspergillus niger*	iii.	Citric Acid
d.	*Acetobacter aceti*	iv.	Bread
		v.	Acetic Acid

Select the **correct** option. [NEET (UG) 2019]

(1) (a)-(iii), (b)-(iv), (c)-(v), (d)-(i)
(2) (a)-(ii), (b)-(i), (c)-(iii), (d)-(v)
(3) (a)-(ii), (b)-(iv), (c)-(v), (d)-(iii)
(4) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(v)

Scan or tap for the full solution

Q.11 Which of the following is a commercial blood cholesterol lowering agent? [NEET (UG) 2019]

(1) Streptokinase (2) Lipases
(3) Cyclosporin A (4) Statin

Scan or tap for the full solution

Q.12 Which of the following is correctly matched for the product produced by them ? [NEET 2017]

(1) *Acetobacter aceti* : Antibiotics
(2) *Penicillium notatum* : Acetic acid
(3) *Methanobacterium* : Lactic acid
(4) *Saccharomyces cerevisiae* : Ethanol

Scan or tap for the full solution

Q.13 Which of the following is wrongly matched in the given table? [NEET 2016 (Phase 1)]

(1) Microbe - *Streptococcus*, Product - Streptokinase, Application - Removal of clot from blood vessel
(2) Microbe - *Trichoderma polysporum*, Product - Cyclosporin A, Application - Immunosuppressive drug
(3) Microbe - *Monascus purpureus*, Product - Statins, Application - Lowering of blood cholesterol
(4) Microbe - *Clostridium butylicum*, Product - Lipase, Application - Removal of oil stains

Scan or tap for the full solution

Q.14 Match the following list of microbes and their importance - [AIPMT 2015]

Column I	
a.	*Saccharomyces cerevisiae*
b.	*Monascus purpureus*
c.	*Trichoderma polysporum*
d.	*Propionibacterium sharmanii*

Column II	
i.	Production of immunosuppressive agent
ii.	Ripening of Swiss cheese
iii.	Commercial production of ethanol
iv.	Production of blood cholesterol lowering agents

(1) (a) - (iii), (b) - (i), (c) - (iv), (d) - (ii)
(2) (a) - (iii), (b) - (iv), (c) - (i), (d) - (ii)
(3) (a) - (iv), (b) - (ii), (c) - (i), (d) - (iii)
(4) (a) - (iv), (b) - (iii), (c) - (ii), (d) - (i)

Scan or tap for the full solution

Q.15 A good producer of citric acid is [NEET 2013]

(1) *Clostridium* (2) *Saccharomyces*
(3) *Aspergillus* (4) *Pseudomonas*

Scan or tap for the full solution

Q.16 Read the following four statements (A-D) :
How many of the above statements are wrong ?
A. Colostrum is recommended for the newborn because it is rich in antigen
B. Chikungunya is caused by a Gram negative bacterium
C. Tissue culture has proved useful in obtaining virus-free plants
D. Beer is manufactured by distillation of fermented grape juice [AIPMT 2012 (Mains)]
(1) Two (2) One (3) Four (4) Three

Scan or tap for the full solution

Q.17 *Monascus purpureus* is a yeast used commercially in the production of: [AIPMT 2012 (Prelims)]
(1) Ethanol
(2) Streptokinase for removing clots from the blood vessels
(3) Citric acid
(4) Blood cholesterol lowering statins

Scan or tap for the full solution

Q.18 A patient brought to a hospital with myocardial infarction is normally immediately given [AIPMT 2012 (Prelims)]
(1) Penicillin (2) Streptokinase
(3) Cyclosporin A (4) Statins

Scan or tap for the full solution

Q.19 Read the following statement having two blanks (A and B):
"A drug used for _____ (A) _____ patients is obtained from a species of the organism _____ (B) _____."
The one correct option for the two blanks is: [AIPMT 2011 (Mains)]
(1) A ⟶ Organ-transplant, B ⟶ *Trichoderma*
(2) A ⟶ AIDS, B ⟶ *Pseudomonas*
(3) A ⟶ Swine flu, B ⟶ *Monascus*
(4) A ⟶ Heart, B ⟶ *Penicillium*

Scan or tap for the full solution

Q.20 Which one of the following is a wrong matching of a microbe and its industrial product, while the remaining three are correct? [AIPMT 2011 (Mains)]
(1) *Acetobacter aceti* – acetic acid
(2) *Clostridium butylicum* – lactic acid
(3) *Aspergillus niger* – citric acid
(4) Yeast – statins

Scan or tap for the full solution

Q.21 The most common substrate used in distilleries for the production of ethanol is : [AIPMT 2011 (Prelims)]
(1) Ground gram (2) Molasses
(3) Soyabean (4) Corn meal

Scan or tap for the full solution

Q.22 Ethanol is commercially produced through a particular species of : [AIPMT 2011 (Prelims)]
(1) *Clostridium* (2) *Trichoderma*
(3) *Aspergillus* (4) *Saccharomyces*

Scan or tap for the full solution

Q.23 Continuous addition of sugars in 'fed batch' fermentation is done to : [AIPMT 2011 (Prelims)]
(1) obtain antibiotics (2) produce methane
(3) purify enzymes (4) degrade sewage

Scan or tap for the full solution

Q.24 Which one of the following pairs is wrongly matched? [AIPMT 2009]
(1) Detergents – lipase
(2) Fruit juice – pectinase
(3) Alcohol – nitrogenase
(4) Textile – amylase

Scan or tap for the full solution

Q.25 Modern detergents contain enzyme preparations of [AIPMT 2008]
(1) thermoacidophiles (2) thermophiles
(3) acidophiles (4) alkaliphiles

Scan or tap for the full solution

Q.26 Which one of the following pairs is wrongly matched ? [AIPMT 2007]
(1) Methanogens – Gobar gas
(2) Yeast – Ethanol
(3) Streptomycetes – Antibiotic
(4) Coliforms – Vinegar

Scan or tap for the full solution

Q.27 Curing of tea leaves is brought about by the activity of [AIPMT 2006]
(1) fungi (2) bacteria
(3) mycorrhiza (4) viruses

Scan or tap for the full solution

Q.28 For retting of jute the fermenting microbe used is [AIPMT 2005]

(1) methanophilic bacteria
(2) butyric acid bacteria
(3) *Helicobacter pylori*
(4) *Streptococcus lactis*.

Scan or tap for the full solution

Q.29 Which one of the following pairs is not correctly matched ? [AIPMT 2004]

(1) *Spirulina* – Single cell protein
(2) *Streptomyces* – Antibiotic
(3) *Rhizobium* – Biofertilizer
(4) *Serratia* – Drug addiction

Scan or tap for the full solution

Q.30 Which of the following is used to manufacture ethanol from starch? [AIPMT 2000]

(1) *Saccharomyces*
(2) *Lactobacillus*
(3) *Azotobacter*
(4) *Penicillium*

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	3	2	1	2	3	1	1	2	4	4	4
Ques.	12	13	14	15	16	17	18	19	20	21	22
Ans.	4	4	2	3	4	4	2	1	2	2	4
Ques.	23	24	25	26	27	28	29	30			
Ans.	1	3	4	4	2	2	4	1			