

[Download Doubtnut Now](#)

Q-1 - 14537982

Which of the following microbes is a proteinacious infectious agent?

- (A) Fungi
- (B) Prions
- (C) Bacteria
- (D) Protozoa

CORRECT ANSWER: B

SOLUTION:

Prions are highly resistance glycoprotein particles which

function as infectious agents. Prions can also act as catalyst converting normal protein into prion state. Prions are not affected by proteases, nuclease, temperature upto 800°C , UV radiations and formaldehyde.

Watch Video Solution On DoubtNut App 

Q-2 - 14537986

The inoculum is added to the fresh milk in order to convert milk into curd, the term 'inoculum' here refers to

- (A) a starter rich in vitamin B_{12}
- (B) a starter rich in proteins
- (C) a starter containing millions of LAB
- (D) an aerobic digester

CORRECT ANSWER: C

Q-3 - 14538009

Identify the blank spaces A,B,C and D in the following table and select the correct answer.

Type of microbe	Scientific name	Commercial product
Bacterium	A	Streptokinase
B	Aspergillus niger	Citric acid
Fungus	Trichoderma polysporum	C
Bacterium	D	Butyric acid

- (A) A-Streptococcus B-Fungus
- C-Cyclosporin A D-Clostridium butylicum
- (B) A-Clostridium butylicum B-Streptococcus
- C-Fungus D-Cyclosporin A
- (C) A-Streptococcus B-Yeast
- C-Cyclosporin A D-Lactobacillus
- (D) A-Streptococcus B-Cyclosporin A

C-Strains D-Clostridium butylicum

CORRECT ANSWER: A

Watch Video Solution On Doubtnut App 

Q-4 - 19269264

Dough kept overnight in warm weather becoms soft and spongy because of

(A) Cohesion

(B) Osmosis

(C) Absorption of carbon dioxide from atmosphere

(D) Fermentation

CORRECT ANSWER: D

Watch Video Solution On Doubtnut App 

Cheese and Yoghurt are product of the process

(A) Distillation

(B) Pasterurization

(C) Dehyxdration

CORRECT ANSWER: C

SOLUTION:

Cheese and yoghurt is nutritive product of milk which is formed by fermentation process.

Watch Video Solution On Doubtnut App 

Which one of the following is usedd in the baking of the bread

Or

Baker's yeast is

Or

The dough used for making bread is fermented by

- (A) Rhizopus stolonifer
 - (B) Zygosaccharomyces
 - (C) Saccharomyces cerevisiae
 - (D) Saccharomyces ludwigii
-

CORRECT ANSWER: C

SOLUTION:

Invertase enzyme is obtained from *Saccharomyces cerevisiae* and is used in bread baking. It is also called baker's yeast.

Watch Video Solution On DoubtNut App 

In the sewage treatment, bacterial flocs are allowed to sediment in a settling tank. This sediment is called as

(A) Inactivated sludge

(B) Activated sludge

(C) Primary sludge

(D) Secondary sludge

CORRECT ANSWER: B

SOLUTION:

Once the BOD is reduced the effluent is then passed into a settling tank where the bacteria flocs are allowed to settle. This sediment is called activated sludge. A small part of the activated sludge is pumped back into

the aeration tank to serve as in-colum. The remaining part is pumped into large tanks called anaerobic sludge digester.

Watch Video Solution On DoubtNut App 

Q-8 - 19269378

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

CORRECT ANSWER: D

Watch Video Solution On DoubtNut App 

Which of the following in sewage treatment removes suspended solids.

- (A) Tertiart treatment
 - (B) Secondary treatement
 - (C) Primary treatment
 - (D) Sludge treatment
-

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Streptomycin is obtained from

(A) *Streptomyces griseus*

(B) *S. cerevisiae*

(C) *S. venezuelae*

(D) *S. rimosus*

CORRECT ANSWER: A

SOLUTION:

S. Cerevisiae is used in the formation of dough while *S. venezuelae* is used in obtaining chlorophenicol while *S. venezuelae* is used in obtaining chloroamphenicol drug. Oxytetracycline is obtained from *S. rimosus*.

Watch Video Solution On Doubtnut App 

Q-11 - 19269275

A compound which is produced by an organism and inhibits growth

of other organism is called

(A) Antigen

(B) Antibiotic

(C) Antibody

(D) Interferon

CORRECT ANSWER: B

Watch Video Solution On Doubtnut App 

Q-12 - 19269321

Antibodies in our body are complex

(A) Prostaglandins

(B) Glycoproteins

(C) Lipoproteins

(D) Steroids

CORRECT ANSWER: B

Watch Video Solution On Doubtnut App 

Q-13 - 23781944

Immobilisation protects an enzyme against

(A) High temperature

(B) Low temperature

(C) Amylases

(D) Proteases

CORRECT ANSWER: D

Watch Video Solution On Doubtnut App 

Q-14 - 23781972

Cyclosporin A, used as immunosuppressive agent is obtained from

- (A) Bacterium *Bacillus subtilis*
 - (B) Fungus *Trichoderma polysporum*
 - (C) Fungus *Tolypocladium inflatum*
 - (D) Both B and C
-

CORRECT ANSWER: D

Watch Video Solution On DoubtNut App 

Q-15 - 23782002

Pheromones are chemicals that are used in animals for

- (A) Sex attractants
- (B) Sending alarm signals
- (C) Marking trails

(D) All the above

CORRECT ANSWER: D

Watch Video Solution On Doubtnut App 

Q-16 - 23782013

Thurioside is

(A) Insecticide

(B) Fungicide

(C) Antibiotic

(D) Weedicide

CORRECT ANSWER: A

Watch Video Solution On Doubtnut App 

Q-17 - 23782032

Conversion of sugar into alcohol during fermentation is due

- (A) Microorganisms
 - (B) Zymase
 - (C) Raised temperature
 - (D) Decomposition of sugar
-

CORRECT ANSWER: B

Watch Video Solution On Doubtnut App 

Q-18 - 23782036

Root nodules for nitrogen fixation of a nonleguminous trees possess

- (A) Frankia
- (B) Rhizobium
- (C) Azotobacter

(D) Thiobacillus

CORRECT ANSWER: A

Watch Video Solution On Doubtnut App 

Q-19 - 19269285

The microbe *Pseudomonas denitrificans* produces Vitamin

(A) K

(B) D

(C) B_2

(D) B_{12}

CORRECT ANSWER: D

Watch Video Solution On Doubtnut App 

Q-20 - 19269317

Stirred-tank bioreactors have been designed for

- (A) Availability of oxygen throughout the process
 - (B) Addition of preservation to the product
 - (C) Purifications of the product
 - (D) Ensuring anaerobic conditions in the culture vessel
-

CORRECT ANSWER: A

Watch Video Solution On DoubtNut App 

Q-21 - 19269352

Immobilised enzymes are generally used for bioreactors in

- (A) Batch process
- (B) Digestive process
- (C) Activation process

(D) Continuous process

CORRECT ANSWER: D

SOLUTION:

Immobilisation of enzymes is the process is the process of fixing enzymes or enclosing it in a solid support so as to protect it from deactivation and attack from proteases, maintain enzyme purity, ability to recover it after reaction and perform continuous reaction.

Watch Video Solution On DoubtNut App 

Q-22 - 19269367

What gases are produced in anaerobic sludge digestion

(A) Methane, hydrogen sulphide and O_2

(B) Hydrogen sulphide and CO_2

(C) Methane and CO_2 only

(D) Methane, hydrogen sulphide and CO_2

CORRECT ANSWER: D

SOLUTION:

Marsh gas or Methane gas is mainly produced by the activities of anaerobic bacteria on sewage. Sewage contains large amounts of organic matter and microbes (bacteria and fungi) are digested during secondary treatment process of sewage by anaerobic bacteria. During digestion bacteria produce a mixture of gases such as methane, hydrogen sulphide and carbon dioxide.

Watch Video Solution On DoubtNut App 

The terms "antibiotic " was coined by:

(A) Fleming

(B) Waksman

(C) Funk

(D) Jenner

CORRECT ANSWER: B

Watch Video Solution On Doubtnut App 

Q-24 - 23781992

A legume having symbiotic association with two nitrogen fixing bacteria (Rhizobium and Aerspirillum) is

(A) Crotalaria juncea

(B) Sesbania aculeata

(C) *Sesbania rostrata*

(D) *Cyamopsis tetragonoloba*

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Q-25 - 23782028

Streptomyces griseus produces antibiotic

(A) Terramycin

(B) Chloramphenicol

(C) Neomycin

(D) Streptomycin

CORRECT ANSWER: D

Watch Video Solution On Doubtnut App 

Which is correct?

- (A) Legumes fix nitrogen through bacteria in their leaves
 - (B) Legumes fix nitrogens through bacteria in their roots
 - (C) Legumes fix nitrogens independent of bacteria
 - (D) Legumes do not fix nitrogen.
-

CORRECT ANSWER: B

Watch Video Solution On Doubtnut App 

Streptomycin is used to cure the diseases caused by the bacteria

- (A) Gram-positive

(B) Gram-negative

(C) Gram-netureal

(D) Both gram-postive and gram-negative

CORRECT ANSWER: D

Watch Video Solution On Doubtnut App 

Q-28 - 14537996

Which of the following organisms is used in the production of beverages?

(A) *Penicillium notatum*

(B) *Saccharomyces cerevisiae*

(C) *Aspergillus niger*

(D) *Clostridium butylicum*

CORRECT ANSWER: B

SOLUTION:

The yeast *Saccharomyces cerevisiae*, also known as brewer's yeast, is used for fermenting malted cereals and fruit juices to produce ethanol (ethyl alcohol). Microbes (yeasts in particular) have been used for the production of beverages, such as wine, beer, whisky, brandy and rum.

Watch Video Solution On DoubtNut App 

Q-29 - 14538007

_____ produced by bacterium *Streptococcus* and modified by genetic engineering is used as a clot buster for removing clots from the blood vessels of patients who have undergone myocardial infarction leading to heart attack.

(A) Lipase

(B) Streptokinase

(C) Cyclosporin A

(D) Antibiotic streptomycin

CORRECT ANSWER: B

SOLUTION:

Streptokinase (Tissue Plasminogen Activator or *TPA*)

is an enzyme obtained from the cultures of some

haemolytic bacterium *Streptococcus* and modified

genetically to function as clot buster. It has fibrinolytic

effect. Therefore, it helps in clearing blood clots inside

the blood vessels in patients who have undergone

myocardial infarction leading to heart attack, through

dissolution of intravascular fibrin.

Q-30 - 19269278

Vinegar is produced from sugars with the help of

Or

In the formation of ascorbic acid, the micro-organism is

- (A) Lactobacillus
- (B) Acetobacter
- (C) Nitrosomonas
- (D) Salmonella

CORRECT ANSWER: B

SOLUTION:

Vinegar is most important acid being produced by two step fermentation of sugarcane juice by yeast and

Acetobacter bacilli bacteria. Ascorbic acid (vitamin C) is produced by a complicated modification of glucose by different species of Asetobacter.

Watch Video Solution On Doubtnut App 

Q-31 - 19269315

The organism used for alcohol frementaion is

- (A) Penicillium
- (B) Pseucomonas
- (C) Aspergillus
- (D) Saccharomyces

CORRECT ANSWER: D

SOLUTION:

Brewing industry produces alcoholic beverages of several types depending upon the fermenting agent and the medium. Fermenting agents are *Saccharomyces cerevisiae*, *S. sake*, *S. ellipsodiens* (wine yeast) and *S. pireformis*, (ginner yeast)

Watch Video Solution On Doubtnut App 

Q-32 - 19269380

What would happen if oxygen availability to acitivated sludge flocs is reduced

(A) It will slow down the rate of degradation of organic matter

(B) The centre of flocs will become anoxic, which would caouse 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

CORRECT ANSWER: B

Watch Video Solution On DoubtNut App 

Q-33 - 23781971

Cyclosporin A is used for

(A) Dissolving blood clots

(B) Lowering cholesterol level

(C) Immunosuppression

(D) Enhancing tenderness of meat

CORRECT ANSWER: C

Q-34 - 23782033

In cheese, manufacture microorganisms are important for :

- (A) Ripening
 - (B) Sourcing of milk
 - (C) Sourcing and ripening
 - (D) Development of resistance to spoilage
-

CORRECT ANSWER: C

Q-35 - 23782041

Mycorrhiza exhibits the phenomenon of

(A) Antagonism

(B) Endemism

(C) Symbiosis

(D) Parasitism

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Q-36 - 23782047

Rennin used in cheese industry is

(A) Inhibitor

(B) Alkaloid

(C) Enzyme

(D) Inhibitor

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Q-37 - 23782053

Pasteurisation is carried out at

(A) $120^{\circ}C$ for 60 minutes

(B) $60^{\circ} - 63^{\circ}C$ for thirty minutes

(C) $70^{\circ}C$ for 60 minutes

(D) $80^{\circ}C$ for 30 minutes

CORRECT ANSWER: B

Watch Video Solution On Doubtnut App 

Q-38 - 19269333

Interferons are

- (A) Antiviral proteins
 - (B) Complex proteins
 - (C) Anti-bacterial proteins
 - (D) Anti-concer proteins
-

CORRECT ANSWER: A

SOLUTION:

Interferons are active proteins (Antiviral proteins) that are effective against most viruses.

Watch Video Solution On Doubtnut App 

Q-39 - 19269297

Enzyme can be immobillised by

- (A) Cros-liking enezyme molecules

(B) Covalently attaching to a solid support

(C) Entrapping them in gel

(D) All the above

CORRECT ANSWER: D

SOLUTION:

By corss linking enzyme molecules or by covalently attaching them to a solid support or by entrapping them in gel, metabolic acitivities of enzymes are stopped.

Watch Video Solution On Doubtnut App 

Q-40 - 14538008

Enzyme which has the fibrinolytic effect is

(A) protease

(B) amylase

(C) lipase

(D) streptokinase

CORRECT ANSWER: D

Watch Video Solution On Doubtnut App 

Q-41 - 19269288

Penicillin was used in

(A) I word war

(B) II word war

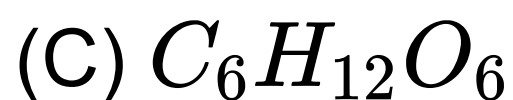
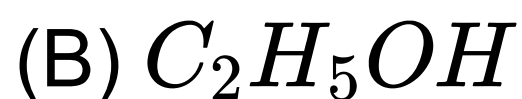
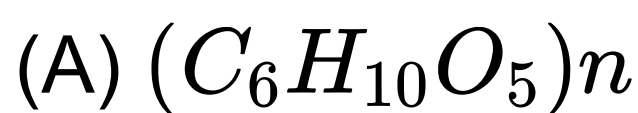
(C) Both I & II word war

(D) None of these

CORRECT ANSWER: B

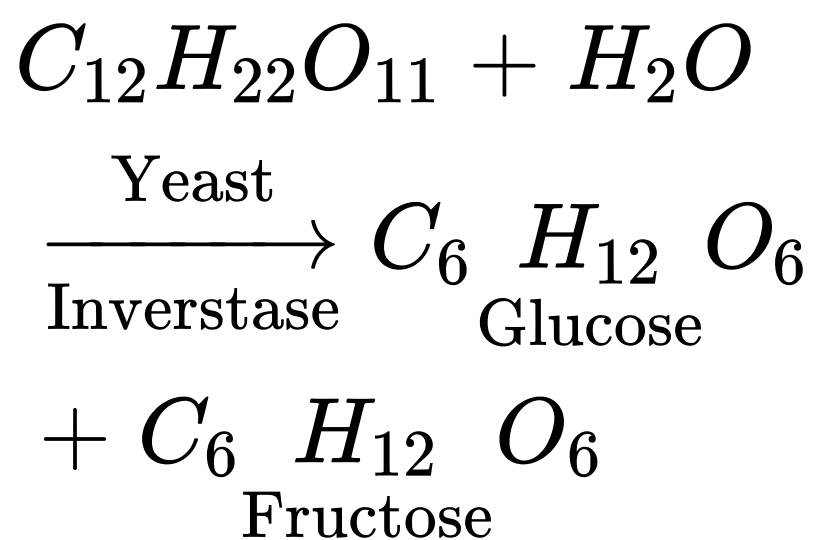
Q-42 - 19269349

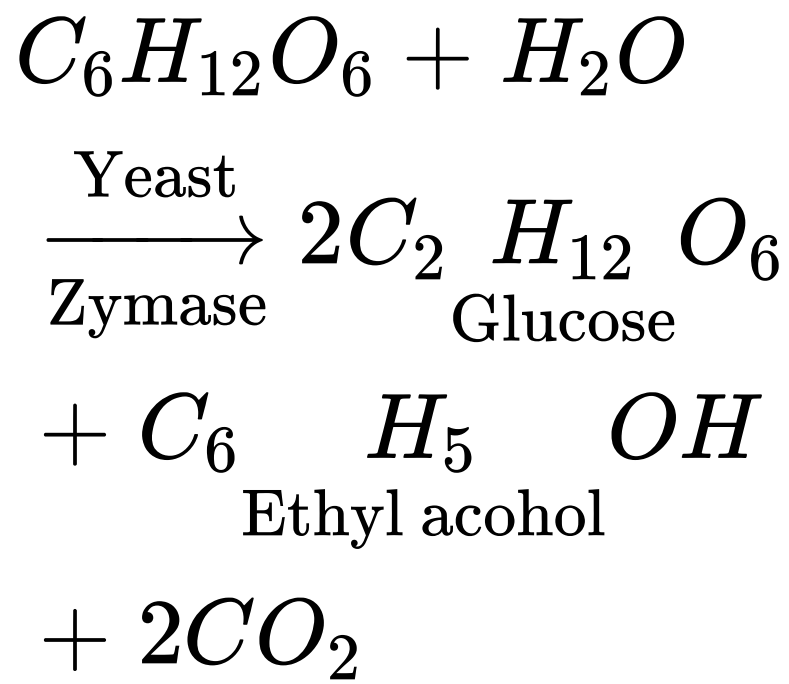
Which of the molecules listed below is a product of fermentation of glucose by yeast



CORRECT ANSWER: B

SOLUTION:





Watch Video Solution On DoubtNut App 

Q-43 - 19269371

The purpose of biological treatment of water -water is to

- (A) Reduce BOD
- (B) Increase BOD
- (C) Reduce sedimentation
- (D) Increases Sedimentation

CORRECT ANSWER: A

Q-44 - 19269401

Why is the gas produced in a biogas plant and fermentation process of dough in bakery different

- (A) As because the microorganisms are different
- (B) As the raw material is different
- (C) Both microorganisms and the raw material are different
- (D) Both the processes are completely different

CORRECT ANSWER: C

Q-45 - 23781985

Fertilizers applied to crop plants, pollute

- (A) Soil resources
 - (B) Water resources
 - (C) Both soil and water resources
 - (D) Soil, water and atmosphere
-

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Q-46 - 23782019

Azolla enriches rice fields with nitrogen due to its association with

Or

A free living nitrogen fixing cyanobacterium which can also form symbiotic association with the water fern Azolla is

(A) Anabaena

(B) Nostoc

(C) Rhizobium

(D) Frankia

CORRECT ANSWER: A

Watch Video Solution On Doubtnut App 

Q-47 - 19269325

Which of the following statements is not true for stirred tank fermentation

(A) Buffer needed to control pH

(B) Batch and feed possible

(C) Controlled dissolved oxygen

(D) Easy in process sampling

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Q-48 - 19269306

Yeast is used in the production of

(A) Citric acid lactic acid

(B) Lipase and pectinase

(C) Bread and beer

(D) Cheese and butter

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Q-49 - 19269280

First antibiotic isolated was

Or

Antibiotics are produced by

(A) Terramycin

(B) Neomycin

(C) Penicillin

(D) Streptomycin

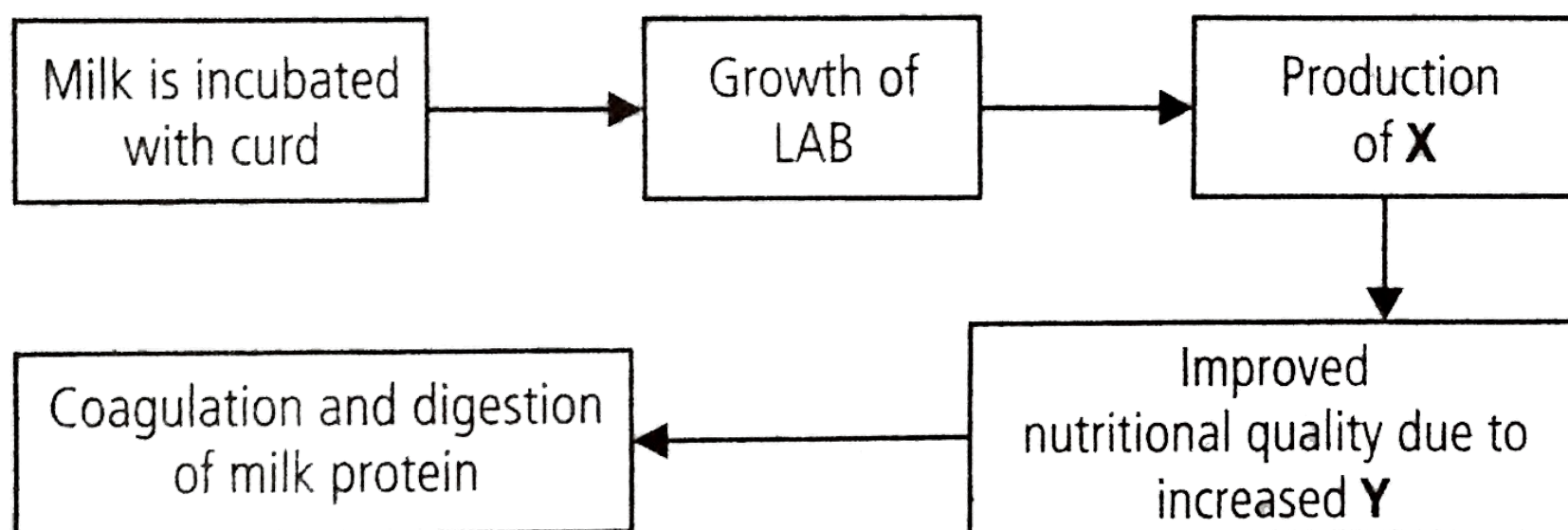
CORRECT ANSWER: C

SOLUTION:

First antibiotic isolated was penicillin (wonder drug,) from *Penicillium notatum*.

Watch Video Solution On DoubtNut App 

Study the following flow chart depicting the formation of curd from milk. Identify the missing parts X and Y.



(A) X-Gluconic acid, Y-Vitamin B_1

(B) X-Lactic acid, Y-Vitamin B_2

(C) X-Lactic acid, Y-Vitamin B_{12}

(D) X-Citric acid, Y-Vitamin C

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Which antibiotic inhibits peptide bond formation

(A) Streptomycin

(B) Tetracyclin

(C) Chloramphenicol

(D) Neomycin

CORRECT ANSWER: C

Watch Video Solution On Doubtnut App 

Q-52 - 19269302

Which of the following organic acids was produced by fermentation

(A) Oxalic acid

(B) Lactic acid

(C) Citric acid

(D) Propionic acid

CORRECT ANSWER: B

SOLUTION:

First organic acid (lactic acid) to be fermented, which obtained by the activity of a number of bacteria. Like *Streptococcus lactis*, *Lactobacillus delbreukii*, and *Rhizopus* fungus.

Watch Video Solution On DoubtNut App 

Q-53 - 19269330

Ergot, which is an important source of a drug is obtained from

(A) *Agaricus*

(B) *Claviceps*

(C) Commiphora

(D) Ephedra

CORRECT ANSWER: B

SOLUTION:

Claviceps purpurea is a fungus which cause ergotism in rye (secale cereale) and other plants. It also yields a hallucinogenic drug called. LSD.

Watch Video Solution On DoubtNut App 

Q-54 - 19269339

Which one of the following pairs is not correctly matched

(A) Spirulina -Single cell protein

(B) Rhizobium - Biofertilizer

(C) Streptomyces -Antibiotic

(D) Serratia -Drug addiction

CORRECT ANSWER: D

Watch Video Solution On DoubtNut App 

Q-55 - 19269355

Which one of the following is a wrong matching of a microbe and its industrial product, while the remaining three are correct,

(A) Clostridium butylicum -lactic acid

(B) Aspergillus niger -citric acid

(C) Yeast -statins

(D) Acetobacter aceti-acetic acid

CORRECT ANSWER: A

Q-56 - 19269363

The primary treatment of sewage involves

- (A) Digestion
- (B) Decomposition
- (C) Sedimentation and Filtration
- (D) None of these

CORRECT ANSWER: C

SOLUTION:

It involves physical removal of particles -large and small from the sewage through filtration and sedimentation. Sequential filtration removes floating debris, then the grit (soil and small pebbles) are removed by sedimentation.

All solids that settle down forms the primary sludge the supernatant forms the effluent.

Watch Video Solution On DoubtNut App 

Q-57 - 19269374

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

- (A) Anaerobic
- (B) Floc
- (C) Chemicals
- (D) Oxidation pond

CORRECT ANSWER: A

Watch Video Solution On DoubtNut App 

Who coined the term " antibiotics"

Or

Streptomycin was first isolated in 1944-45 by

(A) Flemming

(B) Florey

(C) Chain

(D) S. Waksman

CORRECT ANSWER: D

SOLUTION:

The term 'antibiotic' was given by Waksman (1942).

Watch Video Solution On Doubtnut App 

Which of the following antibiotics is not correctly matched with the source from which it is obtained ?

(A)

Antibiotic	Source
------------	--------

Penicillin	Penicillium chrysogenum
------------	-------------------------

(B)

Antibiotic	Source
------------	--------

Bacitracin	Bacillus licheniformis
------------	------------------------

(C)

Antibiotic	Source
------------	--------

Griseofulvin	Penicillium griseofulvum
--------------	--------------------------

(D)

Antibiotic	Source
------------	--------

Streptomycin	Bacillus griseus
--------------	------------------

CORRECT ANSWER: D

SOLUTION:

Streptomycin is obtained from *Streptomyces griseus*. It is found useful in meningitis, pneumonia, tuberculosis and local infections.

Watch Video Solution On DoubtNut App 

Q-60 - 14537998

Wine and beer are produced directly by fermentation whereas brandy and whisky require both fermentation and distillation. This is because

- (A) fermentation is inhibited at the alcohol level of 10 – 18 %
- (B) distillation prolong storage
- (C) distillation improves quality
- (D) distillation purifies the beverage

CORRECT ANSWER: A

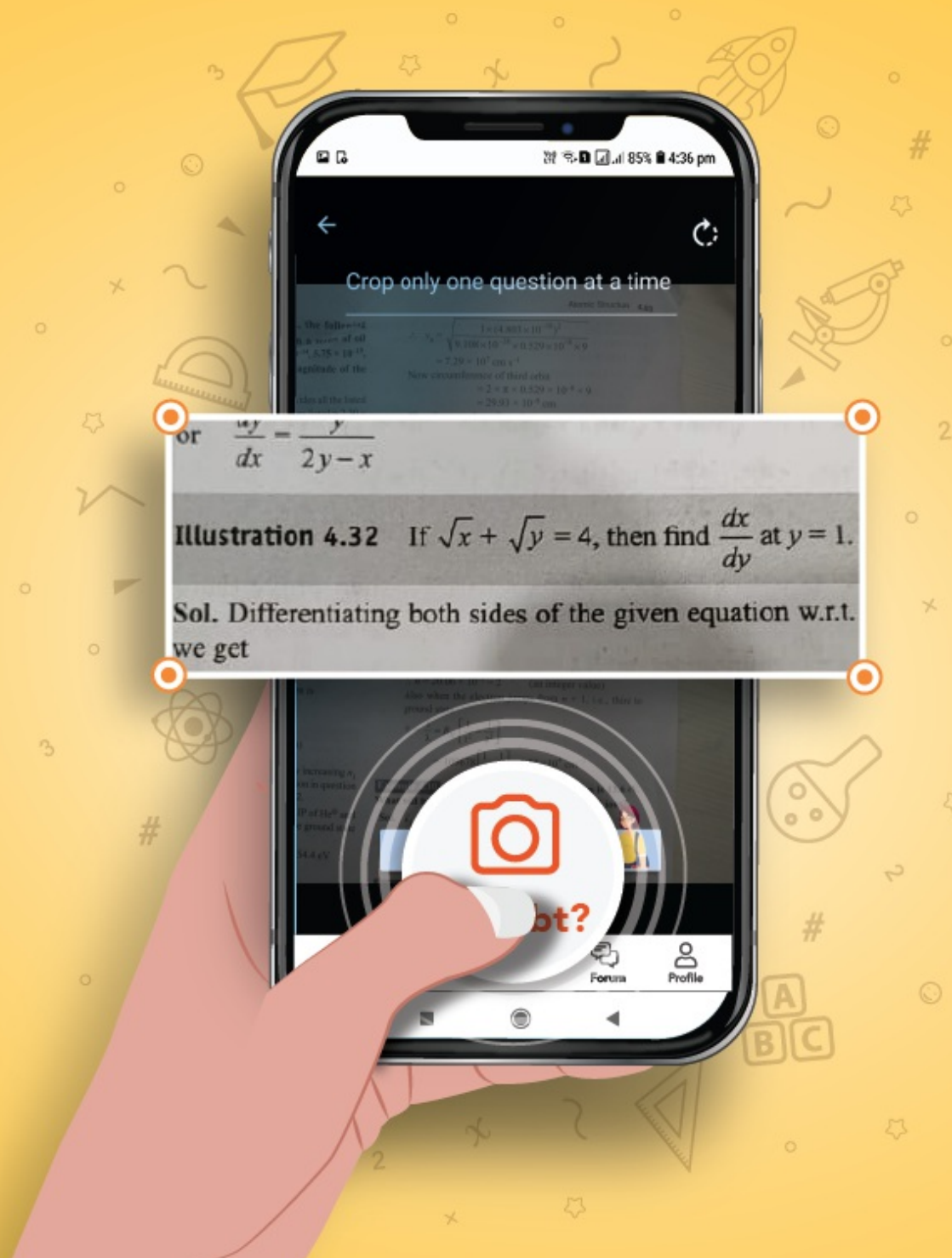
Watch Video Solution On Doubtnut App 

Apne doubts ka Instant video solution paayein

Abhi Doubtnut try karein!



Whatsapp your doubts on
 **8400400400**



 doubtnut