

## BIOLOGY

### BOOKS - A2Z BIOLOGY (HINGLISH)

#### MICROBES IN HUMAN WELFARE

##### Section A Topicwise Question Topic 1 Microbes In Household Products

1. Microbes are present everywhere - in soil, water, air, inside our bodies and that of other plants and animals. They are present even at sites where no other life-form could possibly exist, such as

- A. Deep inside the geysers (thermal vents) where the temperature may be high as  $100^{\circ}C$
- B. Deep in the soil, and under the layers of snow several meters thick
- C. In highly acidic environment

D. All of the above

**Answer: D**



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2. Proteinaceous infectious particles causing disease are

A. Virus

B. Viroids

C. Prions

D. All of the above

**Answer: C**



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3. Select the microbes from the following:

Protozoa

Bacteria

Fungi

Microscopic plant viruses

Viroids

Prions

A. a,b and c

B. a,b,c and d

C. d,e and f

D. a,b,c,d,e and f

**Answer: D**



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4. Which of the following microbes can be grown on nutritive media and form colonies?

(a) Bacteria

(b) Fungi

(c) Viruses (d) Viroids

A. a and b

B. c and d

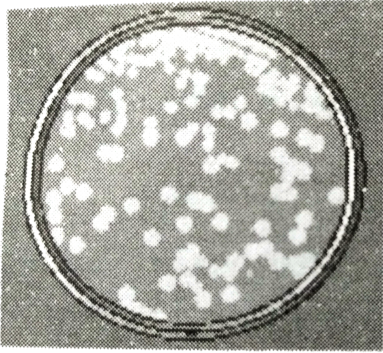
C. a,b and c

D. a,b,c, and d

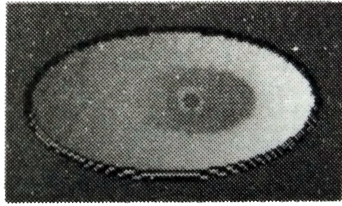
**Answer: A**



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(a)



(b)

5.

Recognise

the figure and find out the correct matching.

A. a - bacterial colony, b - fungal colony

B. a - fungal colony, b - bacterial colony

C. a - viral colony, b - fungal colony

D. a - bacterial colony, b - viral colony

**Answer: A**



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6. The dough which is used for making idli and dosa is fermented by

- A. *Saccharomyces cerevisiae*
- B. A bacterium
- C. *Lactobacillus*
- D. *Propionibacterium sharmanii*

**Answer: B**

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7. Large hole in Swiss cheese are due to production of large amount of  $C_2$  by a

- A. Bacteria
- B. Fungi
- C. Yeast
- D. *Lactobacillus*

**Answer: A**

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8. Respiratory diseases are caused by

- A. Salmonella typhi
- B. HIV
- C. Mycobacterium
- D. Adenoviruses

**Answer: D**

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9. Cheeses are classified on the basis of

- A. Flavour
- B. Colour
- C. Texture

D. All of the above

**Answer: D**

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10. Curd, cheese and butter are produced with the use of

A. Yeast

B. Penicillium

C. Streptococcus

D. None of th above

**Answer: C**

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11. Vineger is prepared from alcohol with the help of :



A. Lactobacillus

B. Acetobacter

C. Azotobacter

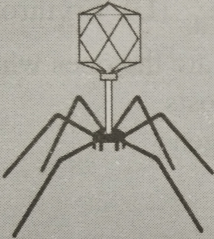
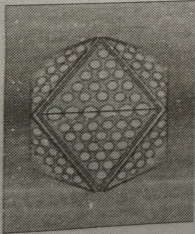

D. Rhizobium

**Answer: B**



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12. Match the following columns

Column I	Column II
a. 	1. Adenovirus
b. 	2. Bacteriophage
c. 	3. TMV

A. a - 1, b - 2, c - 3

B. a - 2, b - 3, c - 1

C. a - 2, b - 1, c - 3

D. a - 3, b - 1, c - 2

**Answer: C**



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**13.** In cheese, microorganisms are required for

- A. Ripening
- B. Souring of milk
- C. Souring and ripening
- D. Development of resistance to spoilage

**Answer: C**



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**14.** Lactobacillus mediated conversion of milk to curd results because of:

- A. Coagulation and partial digestion of milk fats

B. Coagulation and partial digestion of milk proteins

C. Coagulation of milk proteins and complete digestion of milk fats

D. Coagulation of milk proteins and complete digestion of milk proteins

**Answer: B**



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15. Lactic acid bacteria convert milk into curd and improves its nutritional quality by enhancing vitamin :

A. A

B. B

C. C

D. D

**Answer: B**



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Section A Topicwise Question Topic 2 Microbes In Household Products  
Fermented Beverages Antib

1. Production of beverages and antibiotics on an industrial scale requires growing microbes in very large vessels called

- A. Setting tank
- B. Fermentors
- C. Biovessel
- D. Agitator

**Answer: B**



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2. Type of the alcoholic drinks are depend on the

- A. Type of raw material used

B. Type of processing

C. Type of fermentors

D. Type of weather

**Answer: D**



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3. Penicillin was the first antibiotic which was a chance discovery.

Alexander Fleming at that time was working on

A. Streptococci bacteria

B. Penicillium notatum

C. pencillium notatum

D. Staphylococci bacteria

**Answer: D**



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4. Which diseases are treated by antibiotics, among the following?(i) Kali

Khansi

(ii) Kushtrog

(iii) Diphtheria

(iv) Plague

A. i,ii,iii

B. i,ii,iv

C. i,iii,iv

D. i,ii,iii,iv

**Answer: D**



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5. Pencillin was extensively used to treat American Soldiers wounded in

\_\_\_\_ World War.

A. First

B. Second

C. Both A and B

D. None of the above

**Answer: B**



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**6. Which of the following diseases are treated by antibiotics ?**

(i) Plague (ii) Diphtheria

(iii) Leprosy (iv) Whooping cough

A. a - 1, b - 2, c - 3, d - 4

B. a - 2, b - 3, c - 4, d - 3

C. a - 2, b - 4, c - 1, d - 3

D. a - 2, b - 1, c - 4, d - 3



**Answer: C**



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7. Full potential of Pencillin as an antibiotic was established by

- A. Chain and Fleming
- B. Chain and Florey
- C. Chain, Florey and Fleming
- D. Florey and Fleming

**Answer: B**



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8. Full functioning of Stain is based on

- A. Allosteric inhibition

B. Non- competitive inhibition

C. Competitive inhibition

D. Endproduct inhibition

**Answer: C**



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**9.** The most abundant prokaryotes helpful to humans in making curd and in production of antibiotics are ones categorised as:

A. Chemosynthetic autotrophs

B. Heterotrophic bacteria

C. cyanobacteria

D. Archeobacteria

**Answer: B**



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10. Glucose fermentation by Yeast yields

A. Ethanol +  $CO_2$

B. Ethanol +  $H_2O$

C. Methanol +  $CO_2$

D.  $H_2O$  +  $CO_2$

**Answer: A**



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11. Which of the following is used in the formation of beer and bread?

A. Rhizopus

B. Penicillium

C. Saccharomyces

D. Mucor

**Answer: C**



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**12.** Which of the following is called Baker's yeast and Brewer's yeast?

- A. Rhizopus
- B. Penicilium
- C. Saccharomyces
- D. Mucor

**Answer: C**



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**13.** Penicillin inhibits bacterial multiplication because

- A. Checks RNA synthesis

- B. Checks DNA synthesis
- C. Destroyed chromatin
- D. Inhibits cell wall formation

**Answer: D**



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**14. Terramycin is obtained from:**

- A. *Streptomyces griseus*
- B. *S. venezuelae*
- C. *S. aureofaciens*
- D. *S. rimosus*

**Answer: D**



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15. Antibiotics are mostly obtained from

- A. Fungi
- B. Actinomycetes//Bacteria
- C. Both A and B
- D. yanobacteria

**Answer: C**



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16. Match the columns I and II, and choose combination from the options

Column I                      Column II

*a* Citric acid      1 Bacteria

*b* Acetic acid      2 Fungi

given. *c* Butyric acid

*d* Lactic acid

*e* EthanolSA

A. a - 2, b - 1, c - 1, d - 1, e-2

B. a - 1, b - 2, c - 1, d - 2, e - 1

C.  $a - 2, b - 2, c - 1, d - 1, e - 2$

D.  $a - 2, b - 1, c - 1, d - 1, e - 2$

**Answer: D**



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17. In 1928, a scientist discovered the first effective antibiotic. Scientist and antibiotic are

A. Fleming - Streptomycin

B. Fleming - Penicillin

C. - Penicillin

D. Waksman - Streptomycin

**Answer: B**



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18. Which is false about antibiotics ?

- A. The term was coined by Waksman in 1942.
- B. Antibiotics are capable of curing any disease
- C. Some persons develop allergy to antibiotics
- D. Antibiotics are produced by microorganisms

**Answer: B**



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19. *Streptomyces fradiae* produces:

- A. Auremycin
- B. TerramycinNeomycin
- C.
- D. Erythromycin



**Answer: C**



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**20.** Broad spectrum antibiotics are the ones which attack

- A. Pathogens as well as hosts
- B. A wide range of pathogens
- C. Only a pathogen
- D.

**Answer: B**



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**21.** Match column I with column II and select the correct option from the given codes

Column I

Column II

- |                                    |       |               |
|------------------------------------|-------|---------------|
| A. <i>Aspergillus niger</i>        | (i)   | Ethanol       |
| B. <i>Clostridium butylicum</i>    | (ii)  | Statins       |
| C. <i>Saccharomyces cerevisiae</i> | (iii) | Citric acid   |
| D. <i>Trichoderma polysporum</i>   | (iv)  | Butyric acid  |
| E. <i>Monascus purpureus</i>       | (v)   | Cyclosporin A |

A. I - d, ii - c, iii - b, iv - a, v - c

B. I - e, ii - d, iii - a, iv - b, v - c

C. I - c, ii - d, iii - a, iv - e, v - b

D. I - c, ii - d, iii - e, iv - a, v - b

**Answer: C**



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**22.** Antibiotic are drugs commonly used to cure diseases of

A. Fungi

B. Viruse

C. Protozoams

D. Bacteria

**Answer: D**



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**23.** An enzyme that can stimulate germination of barley seeds is

A. Invertase

B.  $\alpha$ -amylase

C. Lipase

D. Protease

**Answer: B**



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1. Full form of BOD is

- A. Biological Oxygen Demand
- B. Biological Organic Demand
- C. Bichemical Oxygen Deficit
- D. Biochemical Oxygen Demand

**Answer: D**



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2. BOD refers to the amoun of the ...a.... That would be consumed if all the ...b... in one ...c... of water were oxidised by ...d... .

- A. a - bacteria, b -  $CO_{92}$ ), c - ml, d - oxygen
- B. a - microbes, b - organic matter, c litre, d - oxygen
- C. a - oxygen,b - organic matter,c - ml, d - bacteria
- D. a - oxygen, b - organic matter, c - ml, d - bacteria

**Answer: C**



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

- A. Absorb colloidal organic matter
- B. Be discarded and anaerobically digested
- C. Be rapidly pumped back from sedimentation tank to aeration tank
- D. Absorb pathogenic bacteria present in the waste water while sinking to the bottom of the settling tank

**Answer: C**



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**4.** Filtration and Sedimentation are the sewage treatment steps involved in

- A. 1<sup>st</sup> treatment
- B. 2<sup>nd</sup> treatment
- C. Biological treatment
- D. Both B and C

**Answer: A**

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5. In biological treatment, when the BOD of sewage is reduced significantly, the effluent is then passes into

- A. settling tank
- B. Aeration tank
- C. Anaerobic sludge digesters
- D. Aerobic sludge digesters

**Answer: A**

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6. Treatment of waste water is done by the

- A. Autotrophic microbes
- B. Heterotrophic microbes
- C. Chemoautotrophic microbes
- D. All of the above

**Answer: B**

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7. After secondary treatment, a part of activated sludge is passes back to aeration tank as inoculum while most of the part of activated sludge passed to

- A. Anaerobic sludge digesters

B. Rivers and streams

C. Aeration tank

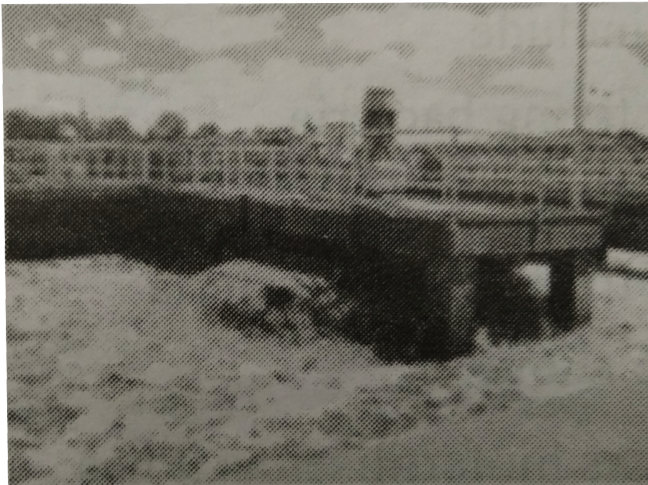
D. Settling tank

**Answer: A**



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8. The following figure shows



A. Priamry treatment



B. Secondary treatment

C. Biological treatment

D. Both B and C

**Answer: D**



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9. Physical removal of large and small particle from the sewage through filtration and sedimentation is called

A. Primary treatment

B. Secondary treatment

C. Biological treatment

D. Both B and C

**Answer: A**



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10. Select the correct statement from the following.

- A. Activated sludge in settlement tanks of sewage treatment plant is a rich source of aerobic bacteria
- B. Biogas is produced by the activity of aerobic bacteria on animal waste (dung)
- C. Methanobacterium is an aerobic bacterium found in rumen of cattle
- D. Biogas, commonly called gobar gas, is pure methane.

**Answer: A**



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11. Group of bacteria used in biogas production is

- A. Eubacteria

B. Organotrophs

C. Mthanotrophs

D. Methanogens

**Answer: D**



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12. Sewage treatment process in which part of decomposer bacteria is recycled into starting of the process is called

A. Cyclic treatment

B. Primary treatment

C. Tertiary treatment

D. Activated sludge treatment

**Answer: D**



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13. Methanogens growing anaerobically on cellulosic material produce

- A. Methane
- B. Methane and hydrogen
- C. Methane and carbon dioxide
- D. Methane, carbon dioxide and hydrogen

**Answer: D**



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## Section A Topicwise Question Topic 4 Microbes In Production Of Biogas

1. Microbes produce different types of gaseous end products during growth and metabolism.

- A. Microbes

B. Organic substrates utilised by microbes

C. End product

D. Both A and C

**Answer: D**



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**2. In which of the following examples  $CO_2$  gas is produced?**

(a). Fermentation of dough

(b). Cheese making

(c). Production of beverages

(d). Biogas production

Alcoholic fermentation

(e). Alcoholic fermentation

(f). Lactic acid fermentation

A. a,b,c and e

B. a,b,c, and d

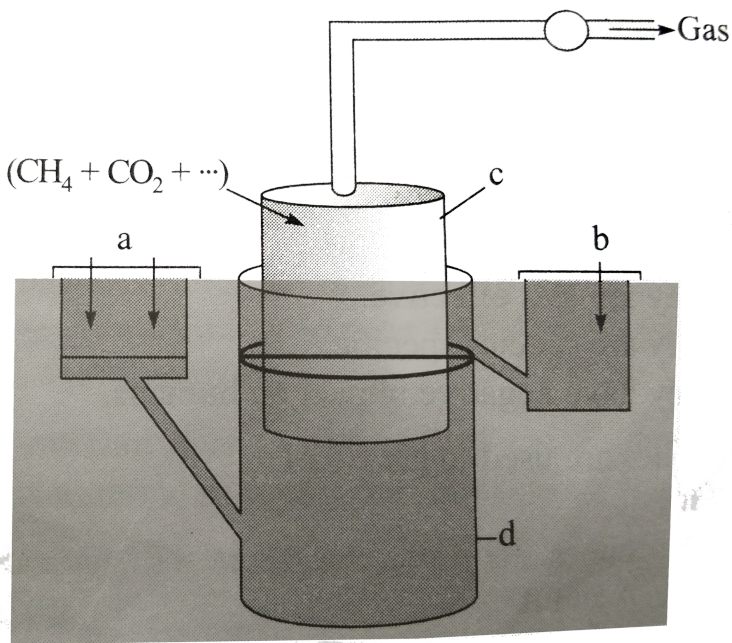
C. a,b,c,d and e

D. a,b,b,d,e and f

**Answer: C**

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**3. Recognise the figure and find out the correct matching.**



A. a-sludge, b - dung and water, c - digester, d- gas holder

B. b - sludge, a - dung and water, d - digester, c - gas holder

C. a - sludge, b - dung and water, d - digester, c - gas holder

D. b - sludge, a - dung and water, c - digester, d - gas holder

**Answer: B**



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4. A peculiar odour that occurs in marshy areas and cowsheds is due to gas produced by

A. Cyanobacteria

B. Archeobacteria

C. Mycoplasma

D. Slime Moulds

**Answer: B**



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## Section A Topicwise Question Topic 5 Microbes As Biocontrol Agents

1. If we need to protect our crops from mosquitoes then we can use

- A. Ladybird beetle
- B. Dragonflies
- C. Bacillus thuringiensis
- D. Both A and B

**Answer: B**



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2. Baculoviruses are used as biological control agents that attacks

- A. Insects
- B. Mammals



C. Other arthropods

D. Both A and C

**Answer: D**



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**3. Biological method of control of pests and disease relies on**

A. Interspecific competition

B. Intraspecific competition

C. Natural predation

D. Introduced chemicals

**Answer: C**



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4. To control butterfly caterpillars we can use

- A. Ladybird beetle
- B. Dragonflies
- C. Nucleopolyhedrovirus
- D. *Bacillus thuringiensis*

**Answer: D**



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5. Which is incorrect about the Nucleopolyhedrovirus (NPV)?

- A. These are species-specific.
- B. These are broad-spectrum.
- C. They have no negative impact on plants, mammals, birds, fish and non-target insects.

D. They aid in an overall IPM programme or when an ecologically sensitive area is being treated.

**Answer: B**



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6. Which of the following is one of the advantage of application of viruses as bioinsecticides?

- A. They are not used in IPM.
- B. They are less effective.
- C. They are species specific.
- D. They have negative impact on humans.

**Answer: C**



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7. Dragonflies are used to get rid of

- A. Aphids
- B. Mosquitoes
- C. Both A and B
- D. Shoot borer and fruit borer

**Answer: B**



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8. The majority of Baculoviruses are used as biological control agents as

- A. They are species-specific
- B. They have no negative impact on non-targets
- C. Beneficial insects are being conserved
- D. All of the above

**Answer: D**



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**9. Which is a microbial insecticide ?**

A. *Bacillus thuringiensis*

B. *B. subtilis*

C. *B. polymixa*

D. *B. brevis*

**Answer: A**



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## Section A Topicwise Question Topic 6 Microbes As Biofertilisers

**1. Which of the following is not an advantage of mycorrhiza?**

- A. Nitrogen fixation
- B. Resistance to root borne pathogens
- C. Tolerance to salinity and drought
- D. Phosphorus absorption

**Answer: A**

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2. The country pioneer in production of fuel alcohol is

- A. Saudi Arabia
- B. Japan
- C. Brazil
- D. Iran, Iraq

**Answer: C**

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3. Farmers have reported have reported 50% higher yiels of Rice by using biofertilizer

- A. Azolla pinnata
- B. Legume-Rhizobium symbiosis
- C. Glomus
- D. Mycorrhiza

**Answer: A**



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4. Latest trend in plant disease control is

- A. Chemical control
- B. Biological control
- C. Good manure and fertiliser

D. Breeding for disease resistance

**Answer: B**



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5. Biofertilisers include

- A. Nitrogen fixing bacteria
- B. Mycorrhiza
- C. Nitrogen fixing cyanobacteria
- D. All of the above

**Answer: D**



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6. Azolla is used as biofertilizer as it has



- A. Rhizobium
- B. Cyanobacteria
- C. Mycorrhiza
- D. Large quantity of humus

**Answer: B**

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7. Organic farming is raising crops through use of

- A. Biofertilisers
- B. Manures
- C. Resistant Varieties
- D. All of the above

**Answer: D**

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8. Organic farming does not include

- A. Green manures
- B. Chemical fertilizer
- C. Crop rotation
- D. Compost and farmyard manures

**Answer: B**



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9. Mycorrhiza is helpful in

- A. Synthesis of food
- B. Getting nutrients from soil
- C. Providing resistance against different regulators

D. Increase the fertility of soil

**Answer: B**



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**10.** If wheat field is inoculated with Rhizobium

- A. Soil will become nitrogen rich
- B. No effect on soil nitrogen
- C. Soil will be depleted of nitrogen
- D. Soil will become rich in calcium

**Answer: B**



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**11.** Which of the following acts as biofertiliser

- A. Nostoc
- B. Rhizobium
- C. Mycorrhiza
- D. All of the above

**Answer: D**

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## Section B Assertion Reasoning Questions

1. Assertion: Besides macroscopic plants and animals, microbes are the major components of biological systems on this earth.

Reason: Microbes cause a large number of diseases in humans, plants and animals.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: B**

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2. Assertion: Not all the microbes are harmful, several microbes are useful to man in diverse ways.

Reason: Microbes are used to ferment fish, soyabean and bamboo-shoot to make food.

A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: A**



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**3. Assertion:** Lactobacillus and LAB grow in milk and convert it to curd.

**Reason:** In our stomach, the LAB plays very beneficial role in checking disease causing microbes.

A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: B**



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**4. Assertion:** Cheese is one of the oldest food items in which microbes are used.

**Reason:** Different varieties of cheese are known by their characteristic texture, flavour and taste, the specificity coming from the microbes were used.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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5. Assertion: Toddy is a traditional drink of some part of northern India.

Reason: Toddy is made by fermenting sap from sugarcane.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: D**



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**6. Assertion:** Ethanol is produced by fermenting malted cereals and fruit juices by yeast.

**Reason:** Wine and beer are produced by distillation of the fermented broth.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: C**



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7. Assertion: Antibiotics produced by microbes are regarded as one of the most significant discoveries of nineteenth century

Reason: Anti is a Latin word that means 'against' and bio means 'life', together they mean "against life" (in the context of disease causing organisms).

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: D**



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8. Assertion: Discovery of the first antibiotic was a chance discovery.

Reason: Penicillin was the first antibiotic.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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9. Assertion: Bottled fruit juices bought from the market are clearer as compared to those made at home.

Reason: Bottled juices are clarified by the use of pectinases and proteases.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: A**



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**10.** Assertion: The municipal waste-water is also called sewage.

Reason: A major component of sewage is human excreta.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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**11.** Assertion: Sewage contains large amounts of organic matter and microbes. Many of which are pathogenic.

Reason: Before disposal, sewage is treated in sewage treatment plants ( $STP_s$ )

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: B**

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**12.** Assertion: Indirectly, BOD is measure of organic matter present in the water.

Reason: The BOD test measures the rate of uptake of oxygen by micro-organisms in a sample of water.

A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: A**



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**13.** Assertion: The greater the BOD of waste water, less is its polluting potential.

Reason: The effluent from the primary treatment plant is generally released into natural water bodies like rivers and streams.

A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: D**



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**14.** Assertion: Biogas can be used as source of energy.

Reason: Biogas is inflammable.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: A**



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**15. Assertion:** Till date, no man-made technology has been able to rival the microbial treatment of sewage.

**Reason:** Untreated sewage is often discharged directly into rivers leading to their pollution and increase in water-borne disease.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**



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**16. Assertion:** Ganga Action Plan and Yamuna Action Plan has initiated to save these major rivers from pollution.

Reason: These action plans has initiated by IARI and KVIC.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: C**



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**17. Assertion:** Biogas plants are more often built in rural areas

**Reason:** Cattle dung is available in large quantities in rural areas where cattle are used for a variety of purposes.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: A**



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**18.** Assertion: Soil is polluted through use of weedicides to remove weeds.  
Reason: Agricultural chemicals (like insecticides and pesticides) are toxic and extremely harmful, to human beings and animals alike, and have been polluting environment (soil, ground water), fruits, vegetables and crop plants.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If assertion is true but reason is false.
- D. If both assertion and reason are false.

**Answer: B**

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**19.** Assertion: The use of biocontrol measures will greatly reduce our dependence on toxic chemicals and pesticides.

Reason: Bt is used to protect the brassicas and fruit trees from butterfly caterpillars.

- A. If both assertion and reason are true and the reason is the correct explanation of the assertion.

B. If both assertion and reason are true but reason is not the correct explanation of the assertion.

C. If assertion is true but reason is false.

D. If both assertion and reason are false.

**Answer: B**

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## Section D Chapter End Test

1. The antibiotic cephalosporin is obtained from a species of:

A. Bacterium

B. Alga

C. Fungus

D. Mycoplasma

**Answer: C**



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**2. Who is credited with indentifying petro crops?**

A. Swaminathan

B. Calvin

C. Krebs

D. Borlaug

**Answer: B**



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**3. Government of India is putting more stress on planting quick growing trees which yield better fodder and fuel.It is under**

- A. Afforestation
- B. Forest conservation
- C. Social forestry
- D. All of the above

**Answer: C**

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**4. Cow dung is appropriately used as**

- A. Manure
- B. Fuel
- C. Medicine
- D. Building material

**Answer: A**

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5. Who showed that certain plants can function as a source of hydrocarbons

- A. Melvin Calvin
- B. Hans Krebs
- C. Robert Brown
- D. John Priestley

**Answer: A**



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6. Bioenergy is obtained from

- A. Petroleum
- B. Natural gas
- C. Biomass



D. Synthetic fuel

**Answer: C**



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7. Which one is a neem product used as insect repellent

A. Rotenone

B. Azadirachtin

C. Parathion

D. Endrin

**Answer: B**



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8. which of the following plant is used as green manure ?

A. *Crotalaria juncea*

B. *Azolla*

C. *Hevea braziliensis*

D. *Azadirachta juncea*

**Answer: A**

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9. The main energy containing components of biogas is

A. Methane

B. Hydrogen sulphide, nitrogen, methane

C. Hydrogen sulphide

D. Carbon dioxide

**Answer: A**

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10. Which one is a petroplant?

A. *Cicer arietinum*

B. *Beta vulgaris*

C. *Euphorbia lathyrus*

D. *Solanum tuberosum*

**Answer: C**



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11. Highest number of antibiotics are produced by



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12. Mycorrhiza works as

- A. Root
- B. Root hair in unfavourable condition
- C. Mechanical support
- D. Organ of respiration

**Answer: B**

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**13. A phosphate solubilising symbiotic association is**

- A. Lichen
- B. Mycorrhiza
- C. Helotism
- D. Mutualism

**Answer: B**

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14. Which one of the following is antifungal antibiotic

- A. Choramphenical
- B. Streptomycin
- C. Griseofluvin
- D. All of the above

**Answer: C**



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15. Which one of the following is not used in the production of yoghurt

- A. Streptococcus lactis
- B. Stretococcus thermophilus
- C. Lactobacillus bulgaricus

D. *Acetobacter aceti*

**Answer: D**



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**16.** Rennin used in cheese industry is

A. Inhibitor

B. Alkaloid

C. Enzyme

D. Inducer

**Answer: C**



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**17.** Streptomycin is useful for treatment of pathogens

A. Gram ( + )

B. Grain ( - )

C. Both A and B

D. Gram neutral

**Answer: C**

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**18.** Fermentation of sugar to yield alcohol is carried out by

A. Microorganisms

B. Zymase

C. Raised temperature

D. Decomposition of sugar

**Answer: B**

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19. Match the following.

- |          |               |            |                        |
|----------|---------------|------------|------------------------|
| <i>a</i> | Citric acid   | <i>i</i>   | Streptococcus          |
| <i>b</i> | Streptokinase | <i>ii</i>  | Aspergillus niger      |
| <i>c</i> | Cyclosporin-A | <i>iii</i> | Monascus purpureus     |
| <i>d</i> | Stains        | <i>iv</i>  | Trichoderma polysporum |

A. a-ii,b-l,c-iv,d-iii

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

C. a-ii,b-l,c-iii,d-iv

D. a-l,b-ii,c-iii,d-iv

**Answer: A**



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20. The earliest pesticide was

A. Margosa

B. Pyrethrum



C. Nicotine

D. DDT

**Answer: A**



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**21. Apetroleum plant is**

A. Sugarcane plant is

B. Maize

C. Potato

D. Euphorbia

**Answer: D**



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22. Germinating barley seeds are employed in the preparation of

A. Lactic acid

B. Wine

C. Cheese

D. Beer

**Answer: D**



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23. Distillation of wine is necessary as it

A. Increases duality

B. Prevents further fermentation and spoiling of whisky

C. Decreases toxicity

D. Has no action on nature of wine

**Answer: B**



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**24.** Distribution of clean and quality milk throughout the world has been made possible through work of

- A. Leeuwenhoek
- B. Koch
- C. Pasteur
- D. Blackman

**Answer: C**



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**25.** Pyrethrin is extracted from

- A. *Azadirachta indica*
- B. *Helianthus annuus*
- C. *Poa annua*
- D. *Chrysanthemum cinerariaefolium*

**Answer: D**

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**26. Organic manure formed by Earthworm is**

- A. Worm casting
- B. Urea
- C. Ammonia
- D. Vermiculture

**Answer: A**

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27. Which organic compound is produced by fermentation and is used to partially replace fossil fuel?

A. Butanol

B. Methanol

C. Ethanol

D. Propanol

**Answer: C**



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28. A petrocrop is

A. Sugarcane plant is

B. Maize

C. Euphorbia lathyrus

D. Potato

**Answer: C**



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**29. VAM represents**

- A. Saprophytic fungi
- B. Symbiotic fungi
- C. Saprophytic bacteria
- D. Symbiotic bacteria

**Answer: B**



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30. In manufacture of bread, it becomes porous due to release of  $CO_2$  by the action of

- A. Protozoans
- B. Bacteria
- C. Yeast
- D. Viruses

**Answer: C**



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31. Cheese and Yoghurt are product of the process

- A. Pasteurisation
- B. Fermentation
- C. Dehydration
- D. Distillation

**Answer: B**



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32. The product of which of the following organisms has been commercialised as blood cholesterol lowering agent:

- A. *Trichoderma polysporum*
- B. *Monascus purpureus*
- C. *Saccharomyces cerevisiae*
- D. *Aspergillus niger*

**Answer: B**



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33. Chemical substance produced by one microorganism to inhibit the growth of another microorganism is called



A. Antibiotic

B. Antigens

C. Antibody

D. Antitoxin

**Answer: A**



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**34.** The technology of biogas production was developed in India through the efforts of

A. KVIS

B. IARI

C. Both A and B

D. WHO

**Answer: C**

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35. Supply of oxygen to the biogas plant will have

- A. Positive effect
- B. Negative effects
- C. No effect
- D. None of these

**Answer: B**

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36. They help in increasing soil fertility

- A. Pseudomonas and cereals
- B. Bacillus and Penicillium
- C. Salvinia and Marsilea

D. Nostoc and legumes

**Answer: D**



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**37.** Biogas mainly consist of

A. Ethane

B.  $CO_2$

C.  $H_2$

D. Methane

**Answer: D**



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**38.** Bacillus thuringiensis is used to control

A. Insect pests

B. Nematodes

C. Bacterial pathogens

D. Fungal pathogens

**Answer: A**



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**39. Penicillin was discovered by**

A. Alexander Fleming

B. Waksman

C. Chain and Florey

D. Both A and B

**Answer: A**



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40. Yeast is employed for production of

- A. Methanol
- B. Ethanol
- C. Butanol
- D. Citric acid

**Answer: B**



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41. *Aspergillus niger* is used for for commerical and industrial production of :

- A. Acetic acid
- B. Butyric acid
- C. Citric acid

D. Citric acid

**Answer: C**



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**42.** Flemming, Chain and Florey were awarded the Nobel Prize in 1945 for the discovery of

A. HIV

B. CT scan

C. Penicillin

D. Staphylococcus

**Answer: C**



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43. Which among these are production by distillation of fermented broth?

(i) Whisky      (ii) Wine

(iii) Beer      (iv) Rum

(v) Brandy

A. b and c

B. a,b and e

C. a,b and c

D. a,d and e

**Answer: D**



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44. Baker's yeast is :

A. *S. cerevisiae*

B. *S. ludwigii*

C. *S. octosporus*

D. *Schizosaccharmyces*

**Answer: A**



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**45. *Streptomyces griseus* produces antibiotic**

A. Terramycin

B. Chloramphenicol

C. Neomycin

D. Streptomycin

**Answer: D**



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46. Members of which of the following fungal genus mainly participate in the mycorrhiza formation

A. Frankia

B. Mucor

C. Glomus

D. Yeast

**Answer: C**



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47. Match the following:

- |                                  |                                            |
|----------------------------------|--------------------------------------------|
| <i>a</i> Pectinases and Protases | <i>i</i> Blood cholesterol lowering agents |
| <i>b</i> Streptokinase           | <i>ii</i> Immunosuppressive agents         |
| <i>c</i> Cyclosporin-A           | <i>iii</i> Clot-busters                    |
| <i>d</i> Stain                   | <i>iv</i> Clarifying agents                |

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

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

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

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

**Answer: B**



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**48.** Ganga Action Plan Yamuna Action Plan has initiated by

A. Indian Agricultural Research Institute (IARI)

B. Khadi and village Industries Commission (KVIC)

C. The Ministry of Environment and Forests(MOEF)

D. Both A and B

**Answer: C**



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49. Methanogenic bacteria are not found in

- A. Bottom of water - logged paddy fields
- B. Activated sludge
- C. Gobar gas plant
- D. Rumen of cattle

**Answer: B**



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50. Bottled juices are clarified by the use of

- A. Pectinases
- B. Peptidases
- C. Lipases
- D. Both A and B

**Answer: A**

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**Others**

1. *Trichoderma harizianum* has proved to be a useful microorganism for

- A. Gene transfer in higher plants
- B. Biological control of soil borne pathogens//biopesticide
- C. Bioremediation of contaminated soils
- D. Reclamation of waste land

**Answer: B**

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2. Which is linked to discovery of Bordeaux mixture as fungicide ?

- A. Downy mildew of Grapes
- B. Loose anut of Wheat
- C. Black rust of Wheat
- D. Bacterial leaf blight of Rice

**Answer: A**

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**3. Modern detergents contain enzyme preparations of**

- A. Thermoacidophiles
- B. Thermophiles
- C. Acidophiles
- D. Alkaliphiles

**Answer: D**

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4. Which one is being tried in india as biofuel substitute for fossil fuels?

A. Jatropha

B. Musa

C. Aegilops

D. Azadirachta

**Answer: A**



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5. Which one is wrongly matched?

A. Detergents-lipase

B. Alcohol-Nitrogenase

C. Textile-amylase

D. Fruit juice-pectinase

**Answer: B**



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6. Which of the following is not used as a biopesticide ?

A. *Xanthomonas campestris*

B. *Bacillus thuringiensis*

C. *Trichoderma harzianum*

D. Nucleopolyhedrovirus

**Answer: A**



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7. Which should be used for production of bioethanol ?

- A. Brassica
- B. Zea mays
- C. Jatropha
- D. Pongamia

**Answer: B**

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**8. An example of endomycorrhiza is**

- A. Glomus
- B. Agaricus
- C. Nostoc
- D. Rhizobium

**Answer: A**

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9. Which one of the following is not used in organic farming ?

A. Earthworm

B. Oscillatoria

C. Snail

D. Glomus

**Answer: C**



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10. A common biocontrol agent for the control of plant diseases is

A. *Bacillus thuringiensis*

B. *Glomus*

C. *Trichoderma harzianum*

D. Baculovirus

**Answer: C**



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**11.** Gray biotechnology' is referred to :

A. Industrial process

B. Medical process

C. Agricultural process

D. Aquatic process

**Answer: A**



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**12.** Select the correct statement from the following

- A. Methanobacterium is an aerobic bacterium found in rumen of cattle.
- B. Biogas commonly called gobar gas is pure methane.
- C. Activated sludge sediment in settlement tanks of sewage treatment plant is rich sources of aerobic bacteria.
- D. Biogas is produced by the activity of aerobic bacteria on animal waste.

**Answer: C**

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**13. Biofertilizers include**

- A. Cow dung manure and farmyard waste
- B. A quick growing crop ploughed back
- C. BGA//Anabaena and Azolla

D. All of the above

**Answer: C**



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**14.** Which of the following is mainly produced by the activity of anaerobic bacteria on sewage

A. Laughing gas

B. Marsh gas

C. Mustard gas

D. Propane

**Answer: B**



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15. Secondary sewage treatment is mainly a

- A. Chemical process
- B. Mechanical process
- C. Biological process
- D. Physical process

**Answer: C**



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16. Continous addition of sugars in 'fed batch' fermentation is done to

- A. Purify enzymes,
- B. Degrade sewage
- C. Produce methane
- D. Obtain antibiotics

**Answer: D**



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**17. Which one is wrongly matched?**

- A. Yeast - statins
- B. *Acetobacter aceti* - Acetic acid
- C. *Aspergillus niger* - Citric acid
- D. *Clostridium butylicum* - Lactic acid

**Answer: D**



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**18. Which is a fungicide**

- A. DDT

B. Bordeaux mixture

C. 2,4 - D

D. DCMU

**Answer: B**



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**19. Which one of the following is not a biofertilizer?**

A. Nostoc

B. Mycorrhiza

C. Agrobacterium

D. Rhizobium

**Answer: C**



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20. Which is incorrect about fermentation?

- A. Toddy is prepared by fermenting palm sap.
- B. Propionibacterium is used in fermentation of cheese.
- C. Puffed up appearance of dough is due to production of  $CO_2$ .
- D. Fermentation in muscles produces alcohol.

**Answer: D**



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21. Which one is correct?

- A. Activated sludge is digested by anaerobic bacteria to produce marsh gas.
- B. Aspergillus niger produces Cyclosporin - A.
- C. Fleming, Chain and Florey were awarded Nobel Prize for penicillin.



D. BOD is amount of oxygen produced by bacteria during decomposition

**Answer: C**



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22. Which one of the following is an example of carrying out biological control of pests/diseases using microbes

- A. Trichoderma against certain plant pathogens.
- B. Bt cotton to increase cotton yield.
- C. Lady cotton to increase cotton yield.
- D. Nucleopolyhedrovirus against white rust of Brassica.

**Answer: A**



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23. In gobar gas, the maximum amount is that of

- A. Propane
- B. Methane and hydrogen
- C. Butane
- D. Carbon dioxide

**Answer: B**



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24. Domestic sewage of large cities

- A. Has very high amount of suspended solid and dissolved salts
- B. When treated in sewage treatment plant does not require aeration
- C. Has high BOD as it contains both aerobic and anaerobic bacteria
- D. Is processed by aerobic and then anaerobic bacteria in secondary treatment in sewage treatment plant

**Answer: D**



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**25.** Lactic acid bacteria (LAB) grow in milk and convert it to curd and also improve its nutritional quality by increasing

- A. Vitamin A
- B. Vitamin  $B_6$
- C. Vitamin  $B_{12}$
- D. Vitamin  $B_{12}$

**Answer: C**



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**26.** Read statement ( a - d). How many of them are wrong?

Colostrum is recommended for new born as it is rich

Colostrum is recommended for new born as it is rich

Tissue culture is useful in obtaining virus free plants

Beer is obtained by distillation of fermented grape juice

A. Four

B. Three

C. Two

D. One

**Answer: B**



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**27.** A good producer of citric acid is :

A. Clostridium

B. Saccharomyces

C. Aspergillus

D. Pseudomonas

**Answer: C**



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**28.** During sewage treatment, biogases are produced which includes :

A. Hydrogen sulphide, methene, sulphur dioxide

B. Hydrogen sulphide, nitrogen, methane

C. Methane, hydrogen sulphide, carbon dioxide

D. Methane, oxygen, hydrogen sulphide

**Answer: C**



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**29.** What gases are produced in anaerobic sludge digesters

A. Hydrogen Sulphide and  $CO_2$

B. Methane and  $CO_2$  only

C. Methane, Hydrogen Sulphide and  $CO_2$

D. Methane, Hydrogen Sulphide and  $CO_2$

**Answer: C**

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**30.** Which of the antibiotics is not produced by one of the Monera (Streptomyces)?

A. Erythromycin

B. Penicillin

C. Streptomycin

D. Terramycin

**Answer: B**

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**31.** Match the following list of microbes and their importance

- |                                        |                                                      |
|----------------------------------------|------------------------------------------------------|
| (a) <i>Saccharomyces cerevisiae</i>    | (i) Production of immunosuppressants                 |
| (b) <i>Monascus purpureus</i>          | (ii) Ripening of Swiss cheese                        |
| (c) <i>Trichoderma polysporum</i>      | (iii) Commercial production of ethanol               |
| (d) <i>Propionibacterium sharmanii</i> | (iv) Production of blood-cholesterol lowering agents |

A. (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)

B. (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)

C. (a)-(iii), (b)-(i), (c)-(iv), (d)-(iii)

D. (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)

**Answer: D**

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**32.** Microbes which act as biofertilizers are

A. Free living nitrogen fixing bacteria - *Rhizobium*

B. Free living nitrogen fixing bacteria - Azospirillum

C. Mycorrhiza formed by the algae of the genus Glomus

D. Root nodule bacteria - Azotobacter fix atmospheric nitrogen in paddy fields

**Answer: B**

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**33.** The bacterium that help in breakdown of cellulose in the rumen of cattle is

A. Clostridium

B. Lactobacillus

C. Methanobacterium is an aerobic bacterium found in rumen of cattle

D. Escherichia



**Answer: C**



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**34.** Cyclosporin A, used as immunosuppressive agent in organ transplants is produced by

- A. Trichoderma against certain plant pathogens.
- B. Monascus
- C. Streptococcus
- D. Staphylococcus

**Answer: A**



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**35.** Yoghurt is produced with the help of

- A. Lactobacillus bulgarius and Lactobacillus thermophilus
- B. Lactobacillus thermophilus and Streptococcus thermophilus
- C. Lactobacillus bulgarius and Streptococcus thermophilus
- D. Lactobacillus kefr and Streptococcus thermophilus

**Answer: C**

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**36.** The Fungs used for commercial production of citric acid is

- A. Clostridium
- B. Saccharomyces
- C. Aspergillus
- D. Pencillium.

**Answer: C**

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37. Large holes in Swiss cheese are formed due to production of large amount of  $CO_2$  by

A. Propionobacterium

B. Mycobacterium

C. Saccharomyces

D. Pencillium.

**Answer: A**

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38. Which of the following is wrongly matched in the given table ?

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39. Match Column I with Column II and select the correct given below

Column I		Column II	
a.	Citric acid	(i)	<i>Trichoderma</i>
b.	Cyclosporin A	(ii)	<i>Clostridium</i>
c.	Statins	(iii)	<i>Aspergillus</i>
d.	Butyric acid	(iv)	<i>Monascus</i>

A. a-I,b-iv,c-ii,d-iii

B. a-iii,b-iv,c-I,d-ii

C. a-iii,b-I,c-ii,d-iv

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

Answer: D



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40. Which of the following in sewage treatment removes suspended solids.

A. Secondary treatment

B. Primary treatment

C. Sludge treatment

D. Tertiary treatment

**Answer: B**



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**41.** Conversion of milk to curd improves its nutritional value of increasing the amount of

A. Vitamin D

B. Vitamin A

C. Vitamin  $B_{12}$

D. Vitamin E

**Answer: C**

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42. Pullorum disease of poultry is caused by

- A. Mycobacterium
- B. Salmonella
- C. Clostridium
- D. Hemophilus

**Answer: B**

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43. Cyclosporine is used as:

- A. for allergy
- B. as immunodepressant
- C. prophylactic for virus

D. none of the above

**Answer: B**



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**44.** People recovering from long illness are often advised to include the alga Spiruline in their diet because it:

- A. makes the food easy to digest
- B. is rich in proteins
- C. has antibiotic properties
- D. restores the intestinal microflora

**Answer: B**



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45. People recovering from long illness are often advised to include the alga Spiruline in their diet because it:

- A. makes the food easy to digest
- B. is rich in proteins
- C. has antibiotic properties
- D. restores the intestinal microflora

**Answer: B**



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46. Which one of the following antimicrobial drugs is suitable for treatment of both tuberculosis and leprosy?

- A. Isoniazid
- B. R -aminosalicylic acid
- C. streptomycin



D. Rifampicin

**Answer: D**



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**47.** Which of the following is the pair of biofertilizers?

- A. Azolla and BGA
- B. Nostoc and legume
- C. Rhizobium and grasses
- D. Salmonella and E.coli

**Answer: A**



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48. Chloramphenicol and erythromycin (broad spectrum antibiotics) are produced by

- A. Streptomyces
- B. Nitrobacter
- C. Rhizobium and grasses
- D. Penicillium

**Answer: A**



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49. A patient brought to a hospital with myocardial infraction is normally immediately given

- A. Penicillin
- B. Streptokinase
- C. Cyclosporin - A

D. Statins

**Answer: B**



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50. A common biocontrol agent for the control of plant diseases is

A. Mucor

B. Glomus

C. *Trichoderma harzianum*

D. Rhizobium

**Answer: C**



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51. Biological control agent is obtained from

- A. *Bacillus thuringiensis*
- B. *E. coli*
- C. *Agrobacterium tumefaciens*
- D. *Meloidogyne incognita*

**Answer: A**

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**52.** Which one of the following statement regarding BOD is true?

- A. The greater the BOD of waste water, more is its polluting potential.
- B.
- C.
- D.

**Answer: A**

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53. 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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54. Assertion : Yeast such as *Saccharomyces cerevisiae* are used in banking industry.

Reason : Carbon dioxide produced during fermentation causes bread dough to rise by thermal expansion.

- A. If both assertion and reason are true and the reason is a correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If the assertion is true but reason is false.
- D. If both the assertion and reason are false.

**Answer: A**

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55. Assertion: vitamins  $B_2$  is found in cereals, green vegetables, Brewer's yeast, egg white, milk and liver.

Reason: It can be commercially produced by some yeasts.

- A. If both assertion and reason are true and the reason is a correct explanation of the assertion.

- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If the assertion is true but reason is false.
- D. If both the assertion and reason are false.

**Answer: B**

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**56.** Assertion : Curdling is required in the manufacture of cheese.

Reason : Lactic acid bacteria are used for the purpose.

- A. If both assertion and reason are true and the reason is a correct explanation of the assertion.
- B. If both assertion and reason are true but reason is not the correct explanation of the assertion.
- C. If the assertion is true but reason is false.

D. If both the assertion and reason are false.

**Answer: B**



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