

# **BIOLOGY**

# BOOKS - MBD BIOLOGY (ODIA ENGLISH)

## MICROBES IN HUMAN WELFARE

**Question Bank** 

**1.** Chemical produced by mould Penicillium notatum did not allow the growth of

Staphylococci bacteria, thus pencillin was established as antibiotic . Who established its effective potential ?

- A. Alexander Fleming
- B. Ernest Chain
- C. Ernest Chain and Howard Florey
- D. Fleming and waterman

### **Answer: C**



- 2. Before disposal, sewage is treated in sewage treatment plants(STPs). It is done by which microbes present naturally in sewage:
  - A. Heterotropic microbes
  - B. Autotrophic microbes
  - C. Aerobic bacteria
  - D. BOTH (A) AND (B)

### Answer: A



3.	Greater	the	BOD	of	sewage	water,	its
ро	lluting ab	oility	is:				

A. lower

B. higher

C. no effect on polluting ability

D. None of the above

### **Answer: C**



**4.** lady bird beetle and dragon flies are useful to get rid of:

A. Butterfly caterpillar

B. Aphids

C. Mosquitoes

D. BOTH (B) AND (C)

### **Answer: D**



**5.** A biological control being developed for use in treatment of plant diseases is Trichoderma. It is a:

- A. Free-living fungus
- B. Parasitic bacteria
- C. Symbiotic fungus
- D. Baculovirus

### **Answer: A**



**6.** Methanogens grow anaerobically on cellulose material produce large amount of  $CH_4$  along with  $CO_2$  and  $H_2$ . This technology of biogas plant was developed in India mainly by:

A. IARI

B. KVIC

C. IIT-Khargpur

D. BOTH (A) AND (B)

**Answer: D** 

### 7. Adeno virus, a bacteriophage causes:

A. Gastric disorder

B. Respiratory infection

C. Fermentation

D. BOTH (A) AND (B)

**Answer: B** 



- 8. Prions are:
  - A. Kind of bacteria
  - B. Group of microbes
  - C. Proteinc infecting agents
  - D. Self duplicating oligosaccharides

**Answer: C** 



- 9. Wine and beer are produced:
  - A. Without distillation
  - B. with distillation
  - C. by distillation of fermented broth
  - D. from ethanol

**Answer: A** 



**10.** Which of the following acts competitively inhibiting enzyme responsible for synthesis of cholesterol:

- A. Statins
- B. Cyclosporins
- C. Streptokinase
- D. Lipases

### **Answer: B**



11. Sumn hemp fibres are obtained from:

A. bark of Crotolaria juncea

B. xylem of Dalbergia sissoo

C. phloem of Carhorus olitorius

D. husk of unripe fruits of Cocos nucifera

### **Answer: A**



# 12. Associated symbiosis is shown by:

- A. Rhizobium
- B. Erankia
- C. Azospirillium
- D. BOTH (A) AND (B)

### **Answer: D**



**13.** Which of the following is not a free living bacterium ?

- A. Anabaena
- B. Azotobacteria
- C. Azospirillium
- D. Cyanobacteria

**Answer: B** 



**14.** Thurioside is a:

A. chemical pesticide

B. proteinaceous toxin of bacterial origin

C. biofertilizer

D. bioherbicide

**Answer: B** 



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15. Rotenone is:

- A. bionisecticide
- B. juvenile hormone
- C. bioherbicide
- D. commonly used biofertilizer

### **Answer: A**



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**16.** 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 a rich
    - source of aerobic bacteria
  - D. Biogas is produced by the activity of aerobic bacteria on animal waste

### Answer: D

17. Confusion technique is used in:

A. increasing population of predators

B. reducing harmful insects

C. developing resistance

D. eliminating weeds

**Answer: A** 



**18.** Cochineal insects have been employed in checking overgrowth of:

- A. Cacti
- B. Eichhornia
- C. Weeds
- D. Scale insects

### **Answer: A**



**19.** Materials of biological origin which are commonly used to maintain and improve soil ferttility are:

A. green manures

B. biofertilizers

C. bioinsecticides

D. BOTH (A) AND (B)

**Answer: D** 



20. VAM is characterized by:

A. intracellular vesicles

B. intracellular arbuscules

C. BOTH (A) AND (B)

D. Associative symbiosis

### **Answer: C**



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A. Rhizobium

B. Azotobacter

C. Azorhizobium

D. Aulosira

**Answer: D** 



**22.** Mycorrhizal hyphae prove useful to the plant by:

A. protecting them from microbial infection

B. providing them additional support

C. enhancing the water absorption and

uptake of minerals

D. storing the minerals

**Answer: C** 

### 23. Ectomycorrhiza is found:

A. on the roots of maize

B. on the roots of groundnut

C. on the roots of rice

D. on the roots of trees like pine and oak

### **Answer: D**



**24.** Select the one which is not related to Rhizobium:

- A. Arachis
- B. Anabaena
- C. Helianthus annus
- D. Melilotus

**Answer: C** 



**25.** Match the microbes in column I with their commercial/ industrial products in column II and choose the correct answer.

Column I	Column II		
Aspergillus niger	(i) Ethanol		
Clostridium	(ii) Statins		
butylicum			
Saccharomyces	(iii) Citric acid		
cerevisiae			
Trichoderma	(iv) Butyric acid		
polysporum			
Mon'ascus purpureu	us (v) Cyclosporin A		

A. a-4, b-5, c-2, d-1, e-3

B. a-3, b-4, c-1, d-5, e-2

C. a-3, b-4, c-5, d-1, e-2

D. a-2, b-3, c-4, d-5, e-1

### **Answer: C**



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**26.** Which one of the following is free living nitrogen fixing cyanobacterium?

A. Nitrosomonas

B. Rhizobium

C. Stigonema

D. Nitrobacter

### **Answer: C**



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**27.** Vescicular Arbuscular Mycorrhizae are:

A. certain symbiotic fungi which live on the surface of root of higher plants

B. mycorrhizae which are found within the

roots

C. endomycorrhizae which live between the cells of root cortex and send special

D. All of the above

### **Answer: C**



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branches into the cells

**28.** Pick up the natural insecticide prepared by Chinese.

- A. Rotenous from roots of Derris eliptica
- B. Azadirachtin extracted form Neem plant
- C. An alkaloid prepared from Datura
- D. None of the above

### **Answer: A**



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29. Biopesticides are:

- A. The chemical which are used to destroy the pests
- B. The living organisms or their products which are useful for the pest control
- C. The organism which destroy the crops
- D. None of the above

### Answer: B



30. Major sources of biofertilizers are:

A. selected symbiotic micro-organisms

B. only nitrogen fixing bacteria

C. only nitrogen fixing cyanobacteria

D. bacteria, cyanobacteria and fungi

#### **Answer: D**



### 31. Pheromones are secreted:

- A. externally as a means of absorption
- B. externally as a means of conduction of impulses
- C. externally as a means of conduction of communication
- D. internally for arousing sexual urge

### **Answer: C**



### 32. Mycorrhiza is a:

- A. symbiotic association of fungi with algae
- B. symbiotic association of fungi with gymnosperms
- C. symbiotic association of fungi with angiosperms
- D. symbiotic association of fungi with the roots of certain seed-bearing plants

#### **Answer: D**



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**33.** Total consumption of fertilizers in India is about:

- A. 3 million tonnes
- B. 4 million tonnes
- C. 18.4 millions tonnes
- D. 9 millios tonnes

#### **Answer: D**



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**34.** The overgrowth of cacti was checked by the introduction of:

- A. Preying mantis
- B. Cochineal insect
- C. Mycoherbicide
- D. Lady bugs

## **Answer: B**



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**35.** The vitamin whose content increases following the conversion of milk into curd by lactic acid bacteria is

A. vitamin C

B. vitamin D

C. vitamin  $B_{12}$ 

D. vitamin E

#### **Answer: C**



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**36.** Wastewater treatment generates a large quantity of sludge, which can be treated by:

- A. digesters
- B. activated sludges
- C. chemicals
- D. oxidation pond

#### **Answer: D**



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# 37. Methanogemc bacteria are not found in:

A. rumen of cattle

B. gobar gas plant

C. bottom of water-logged padity fields

D. activated sludges

#### **Answer: D**

**38.** Match the following list of bacteria and their commercially important products:

Bacterium		Product		
Aspergillus niger	·(a)	Lactic acid		
Acetobacter aceti	·(b)	Butyric acid		
Clostridium	(c)	Acetic acid		
butylicum .		•		
Lactobacillus	(d)	Citric acid		
Choose the correct match:				
		*		

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

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

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

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

### **Answer: C**



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39. Match the following list of bioactive substances and their roles:

	Bioa	ctive Substance		Role		
•	(i)	Statin	(a)	Removal of oil stains		
	(ii)	Cyclosporin A	(b)	Removal of clous from blood vessels		
	(iii)	Streptokinase	(c)	Lowering of blood cholesterol		
	(iv)	Lipase	(d)	Immuno-suppre- ssive agent		
		Choose the correct match:				

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

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

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

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

#### **Answer: D**



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**40.** The primary treatment of waste water involves the removal of :

- A. dissolved impurities
- B. stable particles
- C. toxic substances
- D. harmful bacteria

## **Answer: B**



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**41.** BOD of waste water is estimated by measuring the amount of:

- A. total organic matter
- B. biodegradable organic matter
- C. oxygen evolution
- D. oxygen consumption

## **Answer: D**



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**42.** Which one of the following alcoholic drinks

is produced without distillation?

- A. Wine
- B. Whisky
- C. Rum
- D. Brandy

## Answer: A



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**43.** The technology of biogas production from cow dung was developed in India largely due to the efforts of :

- A. Gas Authority of India
- B. Oil and Natural Gas Commission
- C. Indian Agriculture Research Institute
  and Khadi & Village Industries
  Commission
- D. Indian Oil Corporation

## **Answer: C**



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

A. killing insects

B. biological control of plant disease

C. controlling butterfly caterpillars

D. producing antibiotics

**Answer: B** 



- **45.** What would happen if oxygen availability to activated sludges 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 cause death of bacteria and eventually breakage of flocs
  - C. Flocs would increase in size as anaerobic bacteria would grow around flocs
  - D. Protozoa would grow in large numbers

#### **Answer: B**



- **46.** Mycorrhiza does not help the host plant in:
  - A. Enhancing its phosphorus uptake capacity
  - B. Increasing its tolerance to drought
  - C. Enhancing its resistance to root pathogens

D. Increasing its resistance to insects

#### **Answer: D**



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

A. Anabaena

**B.** Nostac

C. Azotobacter

D. Pseudomonas

#### **Answer: D**



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**48.** Big holes in Swiss cheese are made by a :

A. a machine

B. a bacterium that produces methane gas

C. a bacterium producing a large amount

of carbon dioxide

D. a fungus that releases a lot of gases during its metabolic activities

## **Answer: C**



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

A. burnt

B. buried in landfills

- C. used as manure
- D. used in civil construction

## **Answer: C**



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# **50.** Methanogens do not produce :

- A. oxygen
- B. methane
- C. hydrogen sulphide

D. carbon dioxide

Answer: A



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

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

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

C. be discarded and anaerobically digested

D. absorb colloidal organic matter

Answer: A



## 52. Match the items in Column 'A' and Column

'B' and choose the correct answer.

Column A		Column B		
	Lady bird	(a) ·	Methano	
	-beétle		bacterium	
١	Mycorrhiza	(b)	Trichoderma	
)	Biological	(c)	Aphids	
	control			
•)	Biogas	(d)	Glomus	

The

correct answer is:

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

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

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

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

## **Answer: B**



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**53.** Which one is the most important role of microorganism for the well-being of humans?

A. sewage treatment

B. production of methane

C. biological control of plant disease

D. conversion of milk to curd

## **Answer: C**



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**54.** Farmers have reported over  $50\,\%$  higher yields of rice by using the biofertilizer:

- A. Mycorrhiza
- B. Azolla pinnata
- C. Cyanobacteria

D. Legume-Rhizobium Symbiosis

**Answer: C** 



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**55.** Biological control component is central to advanced agricultural production. Which of the following is used as a third generation pesticide?

A. Insect hormone analogues

- B. Insect repellants
- C. Pheromones
- D. Pathogens

#### **Answer: A**



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**56.** Which one of the following is non-symbiotic biofertilizer

A. VAM

- B. Azotobacter
- C. Anabaena
- D. Rhizobium

### **Answer: B**



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# 57. A biofertilizer is:

A. farmyard manure consisting of mixture

of cattle dung and crop residues

- B. green manure in which a quick growing crop is cultivated and ploughed under
- C. a cyanobacterium like Anabaena sp. living in cavities of Azolla leaves
- D. symbiotic bacteria like Azotobacter which fix atmospheric nitrogen

Answer: C



<b>58.</b>	Which	organisms	serves as	a biofer	tilizer?
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- A. Azolla
- B. E.coli
- C. Spirogyra
- D. Cassia

**Answer: A** 



# 59. Azotobacter and Bacillus polymyxa are:

- A. Decomposers
- B. Non-symbiotic nitrogen fixers
- C. Symbiotic nitrogen fixers
- D. Pathogenic bacteria

#### **Answer: B**



**60.** The phenomenon of using a predator for controlling a pest is:

- A. Biological control
- B. Genetic engineering
- C. Artifical control
- D. Confusion technique

**Answer: A** 



**61.** Crop rotation is carried out for:

A. Increasing acidity of soil

B. Decreasing fertility of soil

C. Increasing fertility of soil

D. All of the above

Answer: C



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62. Nitrogen fixation is

A. Nitrogen ightarrow Ammonia

B. Nitrogen  $\rightarrow$  Nitrates

C. Nitrogen  $\, o \,$  Amino acids

D. BOTH (A) AND (B)

#### **Answer: D**



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**63.** Leghaemoglobin occurs in:

A. Coralloid

- B. BGA
- C. Around bacteriods
- D. Mycorrhiza

#### **Answer: C**



- **64.** BGA is chiefly used as fertilizer in:
  - A. Wheat
  - B. Paddy

C. Mustard

D. Gram

**Answer: B** 



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**65.** Which element plays an important role in nitrogen fixation ?

A. Mn

B. Mo

C. Zn

D. Cu

**Answer: B** 



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**66.** The neem is used as a natural insecticide because:

A. The extract of neem contains azadirachtin which acts as an

antifeedant compound

B. It is significantly most effective than other pesticides

C. It is rapidly degradable in nature

D. Its cost of production is not high

Answer: A



**67.** Which one of the following helps in absorption of phosphorus from soil by plants ?

- A. Glomus
- B. Rhizobium
- C. Frankia
- D. Anabaena

## **Answer: A**



68. Secondary sewage treatment is mainly a:

A. Physical process

B. Mechanical process

C. Chemical process

D. Biological process

**Answer: D** 



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

- A. Laughing gas
- B. Propane
- C. Mustard gas
- D. Marsh gas

## **Answer: D**



**70.** An organism used as a biofertilizer for raising soyabean crop is:

- A. Azotobacter
- B. Azospirillum
- C. Rhizobium
- D. Nostac

**Answer: C** 



**71.** The most common substrate used in distilleries for the production of ethanol is:

- A. Corn meal
- B. Soya meal
- C. Trichoderma
- D. Molasses

## **Answer: D**



# **72.** Ethanol is commercially produced through a particular species of:

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

## **Answer: A**



<b>73.</b> A prokaryotic	autotrophic	nitrogen	fixing
symbiont is found	d in:		

- A. Alnus
- B. Cycas
- C. Cicer
- D. Pisum

## **Answer: B**



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

A. Agrobacterium

B. Rhizobium

C. Nostoc

D. Mycorrhiza

**Answer: A** 



**75.** Continuous addition of sugars in 'fed batch' fermentation is done to:

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

**Answer: B** 



**76.** The 'clot buster' produced by Streptococcus and modified by genetic engineering is:

- A. streptokinase
- B. penicillin
- C. strepsils
- D. cyclosporin A

## **Answer: A**



**77.** During sewage treatment, biogases are produced which include:

A. methane, oxygen, hydrogensulphide

B. hydrogen sulphide, methane, sulphur dioxide

C. hydrogen sulphide, nitrogen, methane

D. methane, hydrogen sulphide, carbon dioxide

Answer: D



78. A good producer of citric acid is

A. Pseudomonas

B. Clostridium

C. Saccharomyces

D. Aspergillus

## **Answer: D**



**79.** What gases are produced in anaerobic sludges digesters?

- A. Methane and  $CO_2$  only
- B. Methane, hydrogen sulphide and  $CO_2$
- C. Methane, hydrogen sulphide and  $O_2$
- D. Hydrogen sulphide and  $CO_2$

## **Answer: B**



**80.** Which organisms convert milk into curd?



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**81.** Name the microorganisms that cause ripening of Roquefort cheese.



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**82.** Name the mould that produces antibiotic penicillin.



**83.** Who were awarded noble prize in 1945 for penicillin discovery?



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84. Which microbe produce citric acid?



85. Which bacteria produce acetic acid? **Watch Video Solution 86.** Which bacteria produce butyric acid? **Watch Video Solution** 87. Name the bacteria that produce lactic acid

**88.** Name a fungus that produces bioactive molecule cyclosporin A which is used as an immuno suppressive agents in organtransplant patient.



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**89.** Name the yeast that produce statin which lowers down the blood cholesterol.



**90.** Name the bacteria that secrete streptokinase?



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**91.** What term is used for masses bacteria associated with fungal filaments to form mesh like structure?



**92.** What term is used for a group of bacteria that produce a large amount of methane along with  $CO_2$  and  $H_2$ ?



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93. What are the symbiotic bacteria in the root nodules of the liguminous plants?



94. What are the pathogens that attack insects?



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**95.** is used for commercial production of ethanol.



96.	The	excreta	of	cattle	are	rich	in			
bacteria										
Watch Video Solution										
<b>97.</b> Bt stands for										
Watch Video Solution										
<b>98.</b> BGA chiefly used as										
Watch Video Solution										

**99.** The majority of baculoviruses used as biological control agents are in the genus .



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**100.** \_\_\_\_are chemical produced by some microbes and can kill the other microbes.



**101.** \_\_\_\_ is the main constituent of gobar gas.



**102.** \_\_\_\_is a traditional drink in Southern India and is the fermented product of palm sap.



103. Streptobacillus converts milk into curd.



104. Azotobacter is a symbiotic bacterium.



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**105.** The mass of loosely arranged undifferent cells developed from explants in tissue culture are called embryoid.



**106.** The enzyme reverse transcriptase is used to obtain recombinant DNA.



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**107.** Bt cotton is a disease resistant transgenic plants.



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**108.** Yogurt is a type of cheese.



109. Streptococcus lactic is responsible for curdling of milk.

A. True

B. False

D.

**Answer: Lactobacillus acidophilus** 



**110.** When milk curdles, the solid part is called curd and the liquid part is yoghurt.

A. True

B. False

C.

D.

**Answer: Whey** 



**111.** The most important use of citric acid is in form of vinegar.

A. True

B. False

C.

D.

**Answer: Acetic acid** 



**112.** Enzymes lipases are used in manufacturing detergents called biological washing powder.

A. True

B. False

C.

D.

**Answer: Enzymes proteases** 



**113.** Biological organism demand (BOD) is a parameter used to measure the amount of organic matter present in waste water.

A. True

B. False

C.

D.

Answer: Biochemical oxygen demand



**114.** Chemical pesticides also kill the host which may lead to pest insurgence where number of pests increases after treatment.

A. True

B. False

C.

D.

## **Answer: Predators**



**115.** Give examples to prove that microbes release gases during metabolism.



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**116.** In which food would you find lactic acid bacteria? Menton some of their useful applications.



117. Name some traditional Indian foods made of wheat, rice and Bengal gram (or their products) which involve use of microbes.



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**118.** In which way have microbes played a major role in controlling diseases caused by harmful bacteria?



**119.** Name any two species of fungus, which are used in the production of the antibiotics.



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**120.** What is sewage? In which way can sewage be harmful to us?



**121.** What is the key difference between primary and secondary sewage treatment?



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**122.** Do you think microbes can also be used as source of energy? If yes, how?



**123.** Microbes can be used to decrease the use of chemical fertilizers and pesticides. Explain how this can be accomplished.



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**124.** Three water samples namely river water, untreated sewage water and secondary effluent discharged from a sewage treatment plant were subjected to BOD test. The samples were labelled A,B and C, but the laboratory

attendant did not note which was which. The BOD values of the three samples A, B and C were recorded as 20 mg/L and 400 mg/L, respectively. Which sample of the water is most polluted? Can you assign the correct label to each assuming the river water is relatively clean?



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**125.** Find out the name of the microbes from Cyclosporin-A (an immuno-suppressive drug) and statins (blood cholesterol lowering agents) are obtained.



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126. Find out the role of microbes in the following.

Single Cell Protein (SCP)

Soil



**127.** Arrange the following in the decreasing order (most important first ) of their importance, for the welfare of human society.

Give reasons for your answer.

Biogas,

Citric acid,

Penicillin

Curd.



**128.** Why does 'Swiss cheese' have big holes?



**129.** What are fermentors?



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**130.** Why do we prefer to call secondary waste water treatment as biological treatment?



**131.** Write the most important characteristics that Aspergillus niger, Clostridium butylicum and Lactobacillus .



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**132.** What would happen if our intestine harbours microbial flora exactly similar to that found in the rumen of cattle?



**133.** Give any two microbes that are useful in biotechnology.



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**134.** Name an immune immunosupressive agent?



**135.** Write Shortnotes on: Microbes in human welfare



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**136.** Write Shortnotes on: Microbes in household products



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137. Write Shortnotes on: Bioreactor



**138.** Write Shortnotes on: Microbes in industrial products



**139.** Write Shortnotes on: Microbes in sewage treatment



**140.** Write Shortnotes on: Microbes in biogas production



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141. Write Shortnotes on: Biocontrol agents



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142. Write Shortnotes on: Biofertilizer



**143.** DISTINGUISH BETWEEN: Batch culture and continuous culture



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**144.** DISTINGUISH BETWEEN: Primary and secondary sewage treatment



145. DISTINGUISH BETWEEN: Biofertilizer and

biocontrol agent

