

OPEN STUDENT FOUNDATION

CHAPTER 8 Human Health and disease STD 12TH Biology

Date : 27/02/24

Total Marks: 30

PRACTICE SHEET DAY 6

Time: 1 hr

Section A

● Choose correct answer from the given options. [Each carries 1 Mark] [10]

1. From what antibiotics is mostly obtained ?
 (A) Bacteria (B) Actino mycitis (C) Cyano bacteria (D) (A) & (B) both
2. Of what is biogas made ?
 (A) Carbon monoxide, Methane and Hydrogen (B) Carbon dioxide, Methane and Hydrogen
 (C) Carbon dioxide, Ethane and Hydrogen (D) Carbon monoxide, Ethane and Hydrogen
3. 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 B₁₂ (D) Vitamin E
4. Wastewater treatment generates a large quantity of sludge, which can be treated by
 (A) Anaerobic digesters (B) Floc (C) Chemicals (D) Oxidation pond
5. Methanogenic bacteria are not found in
 (A) Rumen of cattle (B) Gobar gas plant
 (C) Bottom of water-logged paddy fields (D) Activated sludge
6. Match the following list of bacteria and their commercially important products.

(Bacterium)	(Product)
(a) <i>Aspergillus niger</i>	(1) Lactic Acid
(b) <i>Acetobacter aceti</i>	(2) Butyric Acid
(c) <i>Clostridium butylicum</i>	(3) Acetic Acid
(d) <i>Lactobacillus</i>	(4) Citric Acid

- (A) (a - 2), (b - 3), (c - 4), (d - 1) (B) (a - 2), (b - 4), (c - 3), (d - 1)
 (C) (a - 4), (b - 3), (c - 2), (d - 1) (D) (a - 4), (b - 1), (c - 3), (d - 2)
7. Match the following list of bioactive substances and their roles :

(Bioactive substances)	(Role)
(a) Statin	(1) Removal of oil stains
(b) Cyclosporin A	(2) Removal of clots from blood vessels
(c) Streptokinase	(3) Lowering of blood cholesterol
(d) Lipase	(4) Immuno-suppressive agent

(A) (a - 2), (b - 3), (c - 1), (d - 4) (B) (a - 4), (b - 2), (c - 1), (d - 3)
 (C) (a - 4), (b - 1), (c - 2), (d - 3) (D) (a - 3), (b - 4), (c - 2), (d - 1)
 8. 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
 9. The primary treatment of waste water involves the removal of
 (A) Dissolved impurities (B) Stable particles (C) Toxic substances (D) Harmful bacteria
 10. Which one of the following alcoholic drinks is produced without distillation ?
 (A) Wine (B) Whisky (C) Rum (D) Brandy

Section B

- Write the answer of the following questions. [Each carries 2 Marks] [10]
1. Give scientific reason : The pressure on use of organic farming and biotic fertiliser has been increased.
 2. Give scientific reason : Biogas plant is seen more in rural areas.
 3. Why are cyanobacteria considered useful in paddy fields ?
 4. What are viruses parasitising bacteria called ? Draw a well labelled diagram of the same.
 5. What are biofertilizers ? Give two examples.

Section C

- Write the answer of the following questions. [Each carries 3 Marks] [6]
6. Explain the role of microbes in the production of chemicals, enzymes and other bioactive molecules.
 7. Explain Biological control of pests and diseases.

Section D

- Write the answer of the following questions. [Each carries 4 Marks] [4]
8. Explain the stages included in sewage treatment.



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Section [A] : 1 Mark MCQ

No	Ans	Chap	Sec	Que	Universal_Queld
1.	D	Chap 8	S9	1	QP23P11B1214_P1C8S9Q1
2.	B	Chap 8	S9	2	QP23P11B1214_P1C8S9Q2
3.	C	Chap 8	S5	1	QP23P11B1214_P1C8S5Q1
4.	A	Chap 8	S5	2	QP23P11B1214_P1C8S5Q2
5.	D	Chap 8	S5	3	QP23P11B1214_P1C8S5Q3
6.	C	Chap 8	S5	4	QP23P11B1214_P1C8S5Q4
7.	D	Chap 8	S5	5	QP23P11B1214_P1C8S5Q5
8.	D	Chap 8	S5	7	QP23P11B1214_P1C8S5Q7
9.	B	Chap 8	S5	6	QP23P11B1214_P1C8S5Q6
10.	A	Chap 8	S5	8	QP23P11B1214_P1C8S5Q8

Section [B] : 2 Marks Questions

No	Ans	Chap	Sec	Que	Universal_Queld
1.	-	Chap 8	S2	3	QP23P11B1214_P1C8S2Q3
2.	-	Chap 8	S2	2	QP23P11B1214_P1C8S2Q2
3.	-	Chap 8	S7	4	QP23P11B1214_P1C8S7Q4
4.	-	Chap 8	S7	12	QP23P11B1214_P1C8S7Q12
5.	-	Chap 8	S7	14	QP23P11B1214_P1C8S7Q14

Section [C] : 3 Marks Questions

No	Ans	Chap	Sec	Que	Universal_Queld
6.	-	Chap 8	S1	6R	QP23P11B1214_P1C8S1Q6R
7.	-	Chap 8	S1	11	QP23P11B1214_P1C8S1Q11

Section [D] : 4 Marks Questions

No	Ans	Chap	Sec	Que	Universal_Queld
8.	-	Chap 8	S1	8	QP23P11B1214_P1C8S1Q8