



Column I	Column II
(a) <i>saccharomyces cerevisiae</i>	(i) immunosuppressive agent
(b) <i>Monascus purpurus</i>	(ii) swiss cheese ripening
(c) <i>Trichoderma polysporium</i>	(iii) industrial ethanol production
(d) <i>Propionibacterium sharmanii</i>	(iv) cholesterol lowering agent

- (A) (a → iii) (b → i) (c → iv) (d → ii)                      (B) (a → iii) (b → iv) (c → i) (d → ii)  
 (C) (a → iv) (b → iii) (c → ii) (d → i)                        (D) (a → iv) (b → ii) (c → i) (d → iii)

8. Which gas is formed in anaerobic sludge digester?

- (A) Methane and Carbondioxide                                      (B) Methane, hydrogen sulphide and Carbondioxide  
 (C) Methane, hydrogen sulphide, Carbondioxide                (D) Hydrogen sulphide and Carbondioxide

9. Which one is incorrect in a given table?

	Microbes	Product	Usage
(A)	<i>Monascus purpurus</i>	Statins	Lower down cholesterol level in the blood
(B)	<i>Streptococcus</i>	Streptokinase	Clot bluster
(C)	<i>Clostridium butyricum</i>	Lipase	Remove oil stains from the laundry
(D)	<i>Trichoderma polysporium</i>	Cyclosporin A	In organ transplant patients

10. Good producer of citric acid is \_\_\_\_\_

- (A) *Saccharomyces*                      (B) *Aspergillus*                      (C) *Pseudomonas*                      (D) *Clostridium*

### Section B

● Write the answer of the following questions. [Each carries 1 Mark]

[5]

1. Give full name of BOD
2. Give composition of biogas.
3. What is the use of cyclosporin A?
4. In Packed fruit juices, which enzymes are added?
5. Which fungi genus found in mycorrhiza?

### Section C

● Write the answer of the following questions. [Each carries 3 Marks]

[3]

6. Microbes are used for industrial production on a large scale: explain with examples.

### Section D

● Write the answer of the following questions. [Each carries 4 Marks]

[12]

7. What is sewage? Describe secondary treatment (biological treatment) in Sewage Treatment plant.
8. How microbes are useful as Biocontrol agents? Explain.
9. Microbes can be used to decrease the use of chemical fertilisers and pesticides. Explain how this can be accomplished.

# OPEN STUDENT FOUNDATION

CH : Microbes in human welfare

STD 12TH Biology

Date : 05/03/24

Total Marks: 30

PRACTICE SHEET 16

Time: 1 hr

## Section [ A ] : 1 Mark MCQ

No	Ans	Chap	Sec	Que	Universal_Queld
1.	C	Chap 8	S6	30	QP23P13B1214_P2C8S6Q30
2.	B	Chap 8	S6	32	QP23P13B1214_P2C8S6Q32
3.	B	Chap 8	S6	33	QP23P13B1214_P2C8S6Q33
4.	A	Chap 8	S6	31	QP23P13B1214_P2C8S6Q31
5.	B	Chap 8	S6	35	QP23P13B1214_P2C8S6Q35
6.	C	Chap 8	S6	37	QP23P13B1214_P2C8S6Q37
7.	B	Chap 8	S6	41	QP23P13B1214_P2C8S6Q41
8.	B	Chap 8	S6	43	QP23P13B1214_P2C8S6Q43
9.	C	Chap 8	S6	44	QP23P13B1214_P2C8S6Q44
10.	B	Chap 8	S6	42	QP23P13B1214_P2C8S6Q42

## Section [ B ] : 1 Marks Questions

No	Ans	Chap	Sec	Que	Universal_Queld
1.	-	Chap 8	S2	13	QP23P13B1214_P2C8S2Q13
2.	-	Chap 8	S2	15	QP23P13B1214_P2C8S2Q15
3.	-	Chap 8	S2	11	QP23P13B1214_P2C8S2Q11
4.	-	Chap 8	S2	9	QP23P13B1214_P2C8S2Q9
5.	-	Chap 8	S2	27	QP23P13B1214_P2C8S2Q27

## Section [ C ] : 3 Marks Questions

No	Ans	Chap	Sec	Que	Universal_Queld
6.	-	Chap 8	S1	11	QP23P13B1214_P2C8S1Q11

## Section [ D ] : 4 Marks Questions

No	Ans	Chap	Sec	Que	Universal_Queld
7.	-	Chap 8	S1	18	QP23P13B1214_P2C8S1Q18
8.	-	Chap 8	S1	21R	QP23P13B1214_P2C8S1Q21R
9.	-	Chap 8	S1	23	QP23P13B1214_P2C8S1Q23