

The H.N.S.B.Ltd. Science College, Himatnagar
Internal Examination September-2017

B.Sc. Semester: III
Marks: 40

Subject: Microbiology
Paper No.: MB: 301
(Microbial Physiology)

Date: 11 /09 /2017
Time: 11:30 to 1:00

PART: A Answer any Five of Following.

05

1. _____ are those which are needed in large quantities by the organisms for growth.
(A)Energy (B) Micronutrients (C) Macronutrients (D) Panipuri
2. Who coined Enzyme
(A)Mendel (B) Louis Pastaure (C) carl (D) Kohen
3. Transport of Nutrient molecules by which protein in active Transport ____
(A) Carrier Protein (B) A protein (C) Protein mole (D) Cell membrave
4. Bacteria grow in absent of the oxygen, what are they ?
(A)Anaerobic microorganism (B) Aerobic m.O
(C) Microaerophilic (D) Fucultative Anaerobic
5. EMB stands for _____
(A) Enzyme membrane bind (B) Eosione methylene blue
(C) Enrich methylene blue (D) Enzyme molecular base.
6. Chain of Cocci in struature known as _____
(A)Diplococci (B) Staphylococci (C) Cocci (D) Streptococci

PART: B Answer any Five of Following.

05

7. Define :- Holoenzyme
8. Give categories of carbohydrates.
9. What are simple lipids?
10. Give example of differential media.

11. Structure draw of modes cell division of cocci.

12. Define : suprophytes

PART: C Answer any Three of Following.

06

13. Explain lock and key model with diagram.

14. Enlist levels of protein structure & explain any one.

15. Explain types of bacteria based on temperature.

16. Draw nutritional chart of organism.

17. Define: cofactor, apo-enzyme, co-enzyme.

PART: D Answer any Four of Following.

12

18. Explain different types of bacteria based on oxygen requirement.

19. Physical and chemical properties of enzyme.

20. Define protein and classify them on basis of structure.

21. Define carbohydrates and give its biological significance.

PART: E Answer any Two of Following.

12

22. Explain : Enzyme Inhibition

23 Explain : Mechanism of membrane- Transport

24 Enlist the ingredients for bacteriological media and explain it.

25 What is EMB? List out ingredient with function.