



# ADITYA DEGREE COLLEGES

## ANDHRA PRADESH

IV SEMESTER - MID -1 EXAMINATIONS

II – B.Sc MB MINOR- Paper II

Max. Marks : 60

Time :2 Hr

Date:

MICROBIAL PHYSIOLOGY AND METABOLISM

### SECTION – A

I. Answer any FIVE of the following:

5 x 4 = 20 M

1. Differential media.
2. Group translocation.
3. Synchronous culture
4. Continuous culture.
5. Effect of pH on bacterial growth.
6. Chemoautotrophy.
7. Generation time and growth.
8. Biphasic growth.

### SECTION – B

II. Answer all the following questions:

4 x 10 = 40 M

9. a) Describe about nutritional requirements of microorganisms.  
(or)  
b) Describe about methods of nutrient uptake by cells.
10. a) Write about nutritional groups of microorganisms.  
(or)  
b) Describe in detail about factors influencing microbial growth.
11. a) Describe about direct microscopy and turbidometry .  
(or)  
b) Write in detail about different phases of growth.
12. a) Write in detail about MPN method and SPC in measuring microbial growth.  
(or)  
b) Describe about growth media and it's types.

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