



ADITYA DEGREE COLLEGES

ANDHRA PRADESH

IV SEMESTER - MID -1 EXAMINATIONS

II – B.Sc MB MAJOR - 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. Selective media
2. Iron uptake
3. Synchronous culture
4. Continuous culture
5. Effect of temperature on bacterial growth.
6. Chemoautotrophy.
7. Uniport and symport.
8. Biphasic growth.

SECTION – B

II. Answer all the following questions:

4 x 10 = 40 M

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

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