

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9 Sub. Code :

1	0	5	5	3
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Exam. Code :

5	0	0	2
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**Bachelor of Arts (FYUP) 2nd Semester
(2055)**

BOTANY

Paper : Biofertilizers

Time Allowed : Three Hours] [Maximum Marks : 40

Note :— Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each unit. Draw well labelled diagrams wherever necessary.

1. Answer the following in 2-3 lines :

- (a) Heterocyst & its functions
- (b) Ectomycorrhizae
- (c) Biofertilizers
- (d) Rhizobium
- (e) Two disadvantages of organic fertilizers
- (f) Hormogones
- (g) Green gold mine of nature
- (h) Water blooms

1×8=8

UNIT—I

- 2. Give a detailed account of actinorhizal symbiosis. 8
- 3. Describe characteristics of *Azotobacter* and crop responses to *Azotobacter* inoculum. 8

UNIT—II

4. Give a general account of microbes used as biofertilizers. 8
5. Write a note on *Azolla* and *Anabaena azollae* association and its role in rice cultivation. 8

UNIT—III

6. Describe in detail mycorrhizal association and its types. 8
7. Give a detailed account of isolation & inoculum production of VAM and its influence on growth and yield of crop plants. 8

UNIT—IV

8. Write a detailed note on large scale vermicomposting & its field applications. 8
9. Write notes on :
 - (a) Green manuring
 - (b) Recycling of industrial wastes 4,4