

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 1927

GC-3

Your Roll No.....

Unique Paper Code : 42163302

Name of the Paper : Biofertilisers

**Name of the Course : B.Sc. Life Science CBCS
Skill Enhancement Course**

Semester : III

Duration : 3 Hours

Maximum Marks : 37.5

Instructions for Candidates

1. Write your Roll No. on the top immediately on the receipt of this question paper.
2. All questions are compulsory.

1. (a) Define the followings and elaborate in one two sentences (any five) :

(5)

- (i) Biological control
- (ii) Vesicle
- (iii) Vermicomposting
- (iv) Mass multiplication
- (v) Inoculum
- (vi) Phosphorus mobilisers
- (vii) AMF

P.T.O.

(b) Match the followings : (2.5)

- | | |
|--|---------------------------|
| 1. Organisms which associates symbiotically to form root nodules | a. <i>Glomus</i> |
| 2. Organisms which form arbuscules | b. <i>Eisenia foetida</i> |
| 3. Free living nitrogen fixers | c. <i>Trichoderma</i> |
| 4. Earthworm having a role in vermicomposting | d. <i>Azospirillum</i> |
| 5. Example of a biological control agent | e. <i>Actinomyces</i> |

2. Write short notes on the followings (**any three**) : (15)

- (a) Algae as a biofertiliser
- (b) Organic farming
- (c) Types of mycorrhiza
- (d) Carrier based inoculant

3. Attempt any **two** : (15)

- (i) Justify *Rhizobium* as wonder biofertiliser. Explain its association with leguminous plants.
- (ii) Explain agricultural and industrial waste management emphasizing on various composting methods.
- (iii) Explain the role of arbuscular mycorrhizal fungi in plant nutrition. Elaborate on any five roles.