

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2812 **H**

Unique Paper Code : 32163403

Name of the Paper : Biofertilizers

Name of the Course : **SEC: Botany for Honours**

Semester : IV

Duration : 2 Hours

Maximum Marks : 38

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **three** Questions in all.
3. Question No. 1 is compulsory.
4. Draw well labelled diagrams wherever necessary.

1. (a) Expand the Following (**any four**) (1×4=4)

- (i) CSIR
- (ii) USDA
- (iii) YEMA
- (iv) CFU
- (v) PGPR

P.T.O.

(b) Define (**any two**) : (2×2=4)

(i) Green manure

(ii) Starter Culture

(iii) Biofertilizer

2. Write short notes (**any three**) : (5×3=15)

(a) *Azospirillum* as biofertilizer

(b) Vermicomposting

(c) Actinorrhizal Symbiosis

(d) *Rhizobium* as wonder biofertilizer

3. (a) Why biofertilizers are better than chemical fertilizers? Briefly describe different type of biofertilizers and give suitable examples of each type. (8)

(b) Explain nitrogen fixation by taking into consideration Azolla-Anabaena association and its significance in paddy fields. (7)

4. (a) What is organic farming? Discuss its significance in sustainable agriculture. (8)

(b) Differentiate between endomycorrhiza and ectomycorrhiza with the help of suitable diagrams. (7)

(500)