2023

AGS 4th Semester Examination

B.Sc. Hons. in Agriculture

Biopesticides and Biofertilizers

PAPER — AGEC-452

Full Marks: 50

Time: 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer all questions.

1. Answer any five questions from the following: $2 \times 5 = 10$

Define Biopesticides.

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(Turn Over)

- Write down any two symbiotic N-fixing bacteria.
- (c) What is ectomycorrhiza?
- (d) What is nitragin?
- (e) Give two examples of egg parasites.
- (f) Biological N-fixation in legume plants was discovered by whom and in which year?
- (g) Mention two characters of Azospirillum.
- (h) Write down any two bio-control agents with their targeted species.
- 2. Answer *any* **four** questions from the following: 5×4=20
- (a) Briefly discuss the types of N-biofertilizers with examples.
- (b) Write down role of Azolla as a biofertilizer.
- rhizobium inoculation process?
- Write down the importance of Rhizobium in cereal based cropping system.

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Briefly write the types of biopesticides with a example.

For which crops can you recommend azotobacter?

3. Answer *any* **two** questions from the following: 10×2=20

Write down the effective growing condition for *Rhizobium*, *Azotobacter* and *Azospirillum* inoculation.

Name the types of biofertilizer. What are the advantages of biofertilizer application?

4+6=10

- (c) What do you mean by PSM? What is shelf life? Describe the factors influencing the efficacy of biofertilizers. 2+2+6=10
- (d) What is the mechanism of action of VAM? Briefly describe the production process for liquid biofertilizer. 4+6=10

Rhizobium

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