SET A

Unique paper code :42163302

Name of the course : B.Sc Life Science

Name of the paper : Biofertilizer (SEC)

Semester : III

Duration : 3 Hours+1 Hours for uploading Maximum marks: 38

Instructions for candidate

a) Write your Roll No., Name of the Paper, Course, Semester and Date of examination on the first page of the answer sheet.

- b) Attempt ANY FOUR questions. All questions carry equal marks.
- 1- "Organic farming- The need of the hour". Justify given statement. How organic farming is different from conventional farming. Discuss its advantages and limitations. (9.5)
- 2- 'Mutualistic associations are a subset of symbiosis where two or more different living organisms receive mutual benefits'. Explain given statement with mycorrhizal association and its benefits in agriculture. Differentiate between ectomycorrhiza and endomycorrhiza. (9.5)
- 3- Bio-fertilizers are formulations of beneficial microorganisms that help the growth of plants by increasing the quantity and availability of nutrients through their biological activities. Justify your answer with *Azolla-Anabaena* association and its application in Rice cultivation. (9.5)
- 4- Inappropriate or excess application of chemical N fertilizers causes environmental problems, such as contamination of ground water by nitrates, and air pollution and global warming due to nitrous oxide. Explain how *Rhizobium* as biofertilizer play an important role in sustainable agriculture. Give isolation and inoculation method of *Rhizobium*. (9.5)
- 5- Elaborate the statement "Earthworms are organic waste managers" and discuss the technique for forming biofertilizer using earthworms. Give advantages and limitations for same. (9.5)
- 6- What are different types of Biofertilizers? Explain method used for isolation and mass multiplication of *Azospirillum*. (9.5)

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