Q1

**A/** Enumerate all steps of biofertilizer preparation and explain inoculum preparation

**B/** Explain benefits of Liquid biofertilizer?

**Q2/A/** What is mycorrhizae ? types of mycorrhizae? advantages of mycorrhizae

A-Discus briefly by equation the role of soil microorganism in increasing availability of phosphorus in soil.

B- what is Nitrification? Explain briefly with chemical equation, and write the scientific name of soil nitrifying microorganisms.

C- Explain briefly the role of soil Algae in carbon cycle.

Q3/ Define biofertilizers briefly, and classifiy biofertilizers in to groups based on their nature and function, with one sample (scientific name) for each group

1. Biological process in nitrogen cycle ………………………………………….., ………………………………………, …………………………………………………….., ………………………………………., ………………………………………………….
2. Nitrogen is fix biologically as ……………………which is better than nitrate.
3. There are two ways of biological nitrogen fixation……………, ……………….
4. AOB means………………………………………………………..
5. …………………………………………… sp. can be use as phosphate biofertilizer