

Govt. College for Women Parade Ground Jammu

B.Sc. Sem. V Botany, Skill

Course.- Bio fertilizers (UBOTS 503)

Time allowed:- 3 hours.

Max. Marks:- 80

Section A:- Write short answers to the following questions, each question carries 3 marks

Q No. 1:- Define Bio-fertilizers and chemical fertilizers.

Q No. 2:- What is green Manuring of farms?

Q No. 3:- Give the structure of a typical Cyanobacterium cell

Q No. 4:- Define Mycorrhizae

Q No.5:- Define recycling of biodegradable waste

Section B:- Comprises of five long answer questions of 7 marks each

QNo.6 :- Give the process of the infection of roots of legumes by *Rhizobium* bacteria.

QNo.7:- Give an account of the characteristics of *Azotobacter*.

QNo.8:- Write about the importance of Cyanobacteria as a biofertilizer.

QNo.9:- Give a brief account of the endomycorrhizae.

QNo.10:- Write about the layout of vermin compost unit.

Section C:- Do any two questions from the following . Each question carries 15 marks

QNo.11:- Give a detailed account of the various types of microbes commonly used as bio fertilizers.

QNo.12:- Give a detailed account of the different types manures also write about their importance.

QNo.13:- Give the importance of cyanobacteria and azolla in the cultivation of rice.

QNo.14:- Write in detail about the host diversity of ectomycorrhizae and its importance.

QNo.15:- Write in detail about the concept, types and importance of vermin composting.