

Benha university

Date :19/10/2015

Faculty of science

Time : 1hrs

Botany department

for 4th students (Micro & chem)

Soil microbiology

Answer **the questions** :

1) **A- Systematic of bacteria**: Bergeys can be divided bacteria as follow

1- Manual (morphology and physiology)

2- Absense of O_2 , ability to grow or not

3- Relation of temperature

4) Relation of pH

5- Relation of salt concentration

6- Type of nutrition

B) Activity and function of actinomycetes

1- Decomposition of carbonaceous material

2- Formation of humus

3- Nocardia asteroides causes infections of human and animals

4- Acts as antagonisms

c) Role of fungi in soil:

1- The number of fungi in soil varies with the content of organic matter of soil

2- Increase the fertility of soil

3- The quantity of organic matter in soil effect on fungal numbers in soil

4- The number of fungi in soil influenced by temperature, pH , moisture and aeration .