**HOME TASKS 1.**

**Titles**

1. Practical applications of plant tissue culture. Show the examples for the different plant species
2. Applications of plant tissue culture for improving the yield. Show the examples for the different agricultural plants.
3. Applications of plant tissue culture for improving the yield. Show the examples for the different agricultural plants.
4. Applications of plant tissue culture for improving quality characteristics. Show the examples for the different agricultural plants.
5. Applications of plant tissue culture for increasing tolerance to abiotic stresses. Show the examples for the different agricultural plants.
6. Applications of plant tissue culture for increasing resistance o biotic stresses (fungi, pathogen microorganisms, viruses). Show the examples for the different agricultural plants.
7. How to produce the clones of plants.
8. Practical applications of seed culture. Show the examples for the plant species.
9. Practical applications of embryo culture. Show the examples for the different plant species
10. Practical applications of callus culture. Show the examples for the different plant species
11. Practical applications of organ culture. Show the advantages and limitations, the examples of plants.
12. Practical application of the somatic embryogenesis
13. Describe the functions of each components of culture medium in vivo. How to regulate its composition.
14. Describe Organogenesis