

Kafrelsheikh University  
Fac. Of Science  
Bot. Department  
2<sup>nd</sup> Term/ May 2019/2020



3<sup>rd</sup> level/ Education –Biology.  
Specialized programe  
Course Title: Taxonomy and  
Advanced Plant Anatomy  
Research Subject

**Write in only one research point of the following**

- 1- Anomalous secondary growth.
- 2- A comparison study between the primary and secondary growth of dicot and monocot stems.
- 3- Annual rings (consider dendroclimatology, diffuse and ring porous wood, .....).
- 4- Secondary growth and vascular cambium (consider, origin, organization and activity of cambium, fusiform and ray initials, secondary xylem development, ....).
- 5- Tyloses and lenticel.
- 6- History of plant taxonomy
- 7- Principles of plant taxonomy with special reference to descriptive terminology
- 8- Illustrate the types of inflorescence, seeds and fruit characters as taxonomic evidence in plant taxonomy
- 9- Illustrate all about five families of dicot species .
- 10- All about flower characters as taxonomic evidence in plant taxonomy

رئيس القسم

11- أستاذ المقرر