

Eastern University, Sri Lanka
External Degree Examination

Second Year Second Semester Examination in Science – 2003 / 2004 (Oct. / Nov. 2007)
EXTBT 204 – Plant Structure and Systematics

Answer all questions.

Time: 02 hrs.

1. Briefly explain the approach adopted by each of the following in his system of plant classification.
 - (a). Arthur Cronquist
 - (b). Armen Takhtadjan
 - (c). Theophrastus
2. Compare
 - (a). Qualitative and quantitative characters.
 - (b). Natural system of classification and artificial system of classification and
 - (c). Indented keys and bracketed keys.
3. Write briefly on the structure, distribution and function of the following with fully labeled diagrams.
 - (a). Sclerenchyma
 - (b). Vascular bundle.
 - (c). Cork Cambium (Phellogen)
4. Distinguish between
 - (a). Parenchyma and Collenchyma,
 - (b). Sieve tubes and Xylem Vessels,
 - (c). A Drupe and a Berry and
 - (d). Racemose and Cymose inflorescences.