

EASTERN UNIVERSITY, SRILANKA

FACULTY OF SCIENCE, DEPARTMENT OF BOTANY

FIRST YEAR FIRST SEMESTER EXAMINATION IN SCIENCE - 2012/2013

BT- 101 -PLANT DIVERSITY (REPEAT)



Time: 2 hours

Answer All questions

1. Distinguish between;
 - a). Hormogonium and Carpogonium
 - b). Coenobium and Coenocytes
 - c). Trichome and Trichogyne
 - d). Tinsel and Whiplash flagellum
2. Explain the following statements;
 - a). There is no true endosperm in *Pinus*.
 - b). There is no alternation of generation in diplontic life cycle.
 - c). Without sufficient amount of water *Pellia* life cycle will not be completed.
3. What is sporangiophore?
 - a). Compare the sporangiophore of *Equisetum* with that of *Lycopodium*.
 - b). How it differs from *Psilotum*.
 - c). How it differs from *Lycopodium*.
4. Write short notes with suitable labeled diagrams of the followings;
 - a). Male gametophyte development of *Pinus*.
 - b). Nannandrous type of sexual reproduction in *Oedogonium*.
 - c). Reproduction methods in cyanobacteria.
 - d). Sexual reproduction in *Ulothrix*.