

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. /B.Ed. DEGREE PROGRAMME
BOTANY – LEVEL 03
FINAL EXAMINATION - 2007/2008
BTU 1201/BTE 3201 - PLANT DIVERSITY
PAPER II



DURATION : TWO (02) HOURS

DATE : 19th June 2008

TIME: 1.30 p.m. 3.30 p.m.

Answer **only four (04)** questions.

01. a) Giving named examples and fully labeled diagrams, describe the asexual reproductive methods in fungi.
b) With the help of fully labeled diagrams only, describe the life cycle of *Agaricus*.
02. Write short notes on any three (03) of the following.
i. Sub viral pathogens
ii. Plastids in plant cells
iii. Economic importance of fungi
iv. Resting structures in bacteria
03. a) With the help of fully labeled diagrams, describe the life cycle of *Ectocarpus*.
b) Giving named examples, describe the economic importance of algae.
04. Distinguish between the following.
i. Epigeal germination and hypogeal germination.
ii. Ovule of *Cycas* and ovule of an angiosperm.
iii. Homothallism and heterothallism in fungi.
05. a) Describe briefly the structural diversity of sporophytes in mosses you studied.
b) What are the primitive features seen in the sori and sporangia of ferns.
06. a) Give a brief account on simple tissues in angiosperms, with the help of fully labeled diagrams.
b) Describe the tissue distribution in the root of monocotyledonous and dicotyledonous plants.