LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034
DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY
SECOND SEMESTER – APRIL 2015
PB 2102 - ESSENTIALS OF PLANT BIOLOGY
Date : 20/04/2015 Dept. No. Max. : 100 Marks Time : 01:00-04:00
PART – A
Answer the following, each inabout 50 words $(10 \times 2 = 20)$
1. What are akinetes?
2. Write notes on amphiphloicsiphonostele.
3. What is the contribution of CarolusLinnaeus?
4. Write the floral formula of Asparagusracemosus.
5. Define chlorenchyma.
6. What is fascicular cambium?
7. Draw and label the parts of an ovule.
8. Write notes on tapetum.
9. Mention the binomial of Maizeand Tobacco.
10. What are condiments? Give thebinomial of two condiments.
PART – B
Answer the following, each within 500 words. Draw diagrams and flowcharts
wherever necessary $(5 \times 7 = 35)$
11. (a) Describe the lifecycle of <i>Albugo</i> . Or
(b) Write briefly on the lifecycle of <i>Cycas</i> .
12. (a) Discuss the basic rules of plant nomenclature.
Or
(b) Enumerate the characteristic features of Amaranthaceaewith an example.
13. (a)Draw and describe the structure of a monocot stem. Or
(b) Describe the anomalous secondary growth in Dracaena.
14. (a) Explain the process of double fertilization.
Or (b) Draw and describe the T.S. of anther.
15. (a) What are beverages? Give the binomial, family, useful part and uses of 2 members in alcoholic and non-alcoholic beverages. Or
(b) List any 2 members of edible and aromatic essential oils with respect to their

PART – C

Answer <u>any three</u> of the following, each within 1200 words. Draw diagrams and flowcharts wherever necessary $(3 \times 15 = 45)$

- 16. Write in detail on the lifecycle of Ectocarpus.
- 17. Give an account of the Natural system of classification with its merits and demerits.
- 18. Discuss in detail on the classification of simple permanent tissues.
- 19. Describe in detail the development of the dicot embryo.
- 20. List the binomial, family, useful part and uses of any 1 member of fruits, pulses, spices, fibre-yielding and medicinal plants.
