



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc. DEGREE EXAMINATION – ADV. ZOOLOGY**

**SECOND SEMESTER – APRIL 2014**

**PB 2102 - ESSENTIALS OF PLANT BIOLOGY**

Date : 07/04/2014

Dept. No.

Max. : 100 Marks

Time : 09:00-12:00

**PART – A**

**Answer the following, each within about 50 words only:**

**(10 x 2 = 20)**

1. Write notes on *Nostoc*.
2. What is alternation of generations?
3. Cite the contribution of Linnaeus.
4. Write the floral formula of *Leucasaspera*.
5. What is aerenchyma?
6. State the *TunicaCorpus* theory.
7. What is an endosperm?
8. Define the term megasporogenesis.
9. Mention the binomial of *Ginger* and *Pepper*.
10. What are narcotic plants? Give any two examples.

**PART – B**

**Answer the following, each answer within 500 words; Draw diagrams wherever necessary**

**(5 X 7 = 35)**

11. (a) Describe the life cycle of *Lycopodium*.  
Or  
(b) Write briefly on the lifecycle of *Cycas*.
12. (a) What is *ICBN*? Explain the basic rules of plant nomenclature.  
Or  
(b) Enumerate the characteristic features of *Liliaceae* with *Asparagussp* as example.
13. (a) Write short notes on stomata and its types.  
Or  
(b) Describe the anomalous secondary growth in *Bignonia*.
14. (a) Describe the process of anther development.  
Or  
(b) Draw and label the parts of a mature ovule.

15. (a) What are beverages? List the various alcoholic and non-alcoholic beverages.

Or

(b) Tabulate the various fibre-yielding and timber-yielding plants.

**PART – C**

*Answer any three of the following, each within 1200 words. Draw diagrams wherever necessary*

**(3 X 15 = 45)**

16. Give a detailed account on the lifecycle of *Puccinia*.

17. List the different types of classification? Give an account on the Natural system of classification with its merits and demerits.

18. Explain in detail on the different types of complex plant tissues.

19. Describe in detail the process of double fertilization.

20. List the binomial, family, useful part and uses of 3 members of cereals, pulses, spices, edible oils and fruits.

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