

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & PLANT BIO-TECH.

SECOND SEMESTER – NOVEMBER 2009

**B 215 - TAXONOMY, ANATOMY, EMBRYOLOGY &
ECONOMIC BOTANY OF ANGIOSPERMS**

Date & Time: 10/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART A

Answer **ALL** the questions, each within three or four sentences only (10×2=20)

01. What is taxonomic hierarchy?
02. Distinguish between generic and specific epithet.
03. Mention the types and uses of botanical keys.
04. Enumerate the characteristics of sclerenchyma tissue.
05. Distinguish between collateral and radial vascular bundles.
06. Define abscission.
07. Write short notes on endothecium.
08. What is pollenkit?
09. Differentiate spices from condiments. Give one example each.
10. What are narcotic plants?

PART B

Answer any **FIVE** of the following each within one page only. Draw necessary diagrams. (5× 8= 40)

11. Briefly write about Linnanean system of classification.
12. Write only the floral characteristics of Apiaceae.
13. Write in brief about any two theories on apical meristems.
14. Distinguish between the internal structure of dicot and monocot leaves.
15. Describe the development and structure of Peperomia type of embryosac.
16. Describe the process of microsporogenesis.
17. Give an account of manufacture of pulp and paper.
18. Write notes on alcoholic and non- alcoholic beverages.

PART C

Answer any **TWO** of the following, each within 3 or 4 pages only. Draw necessary diagrams. (2×20= 40)

19. Give the salient features of the families Cucurbitaceae and Asclepiadaceae.
20. How does anomalous secondary growth takes place in *Aristolochia* stem, *Thu Bergeria* stem and *Achyranthes* root?
21. Describe the structure and development of different types of endosperm.
22. Write the binomial, family, morphology of useful parts and uses of any two each of cereals, pulses, fibres, timbers and aromatic essential oil yielding plants.
