



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

THIRD SEMESTER – NOVEMBER 2016

PB 3506/PB 3502 – ANGIOSPERM, TAXONOMY, ECO.BOTANY & EMBRYOLOGY

Date: 04-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART-A

Answer the following, each within 50 words:

(10 x 2 = 20 Marks)

1. What is artificial system of classification?
2. What is botanical nomenclature?
3. Define Gamopetalae.
4. Mention any plants of cucurbitaceae.
5. What is Cyathium?
6. What are the major cereals grown in India?
7. Mention commercial importance of any three fiber crops.
8. What is Endothecium?
9. Define Parthenocarpy.
10. What is Apomixis?

PART- B

Answer the following, each within 500 words,

Draw Diagrams and flowcharts whenever necessary:

(5 x 7 = 35 Marks)

11. (a) What are the main features of the system of classification proposed by Engler and Prantle. State its merits and demerits.
(OR)
(b) Mention the essential features of ICBN and their significance.
12. (a) Distinguish between the floral characters of Rubiaceae and Solanaceae.
(OR)
(b) What are the unique features of poaceae? Write its economic importance.
13. (a) What are the major spices grown in India? Mention the morphology and useful parts of spices.
(OR)
(b) Describe the medicinal uses of Cinchona, Indian Periwinkle and Sweet flag.
14. (a) Give an account of the male gametophyte.
(OR)
(b) Describe the types of cross pollination.
15. (a) Write a brief note on double fertilization.
(OR)
(b) Explain the various stages of development of embryo in monocots.

PART-C

Answer any THREE of the following, each within 1200 words,
Draw Diagrams and flowcharts whenever necessary:

(3 x 15 = 45 Marks)

16. What are the salient features of system of classification proposed by Bentham & Hooker?
State its merits & demerits.
17. Describe the floral and diagnostic characters of Euphorbiaceae and mention the economic importance of any five plants from this family.
18. Give the binomial, family, morphology of useful parts and economic importance of any five fibre yielding plants.
19. Write an essay on female Gametophyte.
20. Explain the development of embryo in Capsella.

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