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D. K. M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****JUNE - 2022****19CABO4A****ALLIED: BOTANY – II****Time: 3 Hours****Max. Marks: 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.**

1. Name the fruit found in Asteraceae.
2. How do you identify Liliaceae?
3. Define double fertilisation.
4. List out the functions of nucellus.
5. Where does glycolysis take place?
6. What is meant by callus in tissue culture?
7. Define monohybrid cross.
8. Mention the principles of Darwinism.
9. Who is the father of Siddha?
10. Mention the uses of *Ocimum sanctum* L.

SECTION – B (5 x 5 = 25)**Answer ALL the questions.**

11. (a) Write short notes on the general characters of the family Annonaceae.

(Or)

- (b) Describe the diagnostic floral features of Euphorbiaceae.

12. (a) Give an account on structure of mature anther with suitable diagram.

(Or)

- (b) Write short notes on the types of ovule.

13. (a) Explain the light reaction of photosynthesis.

(Or)

- (b) Summarise the role of auxins in plants.

14. (a) Write an account on dihybrid cross with suitable example.

(Or)

- (b) Write short notes on Lamarckism.

15. (a) Explain about the Ayurvedic system of medicine.

(Or)

- (b) Explain the medicinal properties of *Curcuma longa*.

SECTION – C (3 x 10 = 30)**Answer any THREE of the following questions.**

16. Give an outline of Bentham and Hooker's classification. Add a note on its merits and demerits.
17. Write an essay on fertilisation and development of Dicot Embryo.
18. Describe the tricarboxylic acid cycle in detail.
19. Explain complementary gene interaction with suitable example.
20. Describe systematic position and medicinal uses of *Azadirachta indica* and *Cassia auriculata*.

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