B.Sc. DEGREE END SEMESTER EXAMINATION OCTOBER/NOVEMBER 2018

SEMESTER –5: BOTANY (CORE COURSE)

COURSE: **15U5CRBOT05: ANGIOSPERM SYSTEMATICS, FLORAL MORPHOLOGY AND ECONOMIC BOTANY**

(Common for Regular 2016 admission & Supplementary 2015 admission)

Time: Three Hours   Max. Marks: 60

PART A

I. *Answer **ALL** questions; each question carries **1** mark.*

1. What is cypsela?
2. What is syngenesiuos anther?
3. Expand ICBN.
4. What is sorosis?
5. Name a family having gynobasic style.
6. What are spirocyclic flowers?
7. Write the binomial of a timber yielding plant.
8. Name a family with dumbell shaped stigma.   (1 x 8 = 8)

PART B

II. *Answer **ANY SIX** questions; each question carries **2** marks.*

9. What are the differences between a hypogynous and an epigynous flower?
10. Describe the androecium of Malvaceae.
11. Explain Papillionaceous corolla.
12. What are the vegetative characters of Apiaceae?
13. What is Cyathium?
14. Explain Monochasial cyme.
15. Write the peculiarities of androecium of Cucurbitaceae.
16. Write the binomial of two plants of ethanobotanical use.
17. Write notes on seed dispersal mechanism in Asclipiadaceae family
18. Draw the floral diagram of Solamina flower and write the floral formula.   (2 x 6 = 12)

PART C

III. *Answer **ANY FOUR** questions; each question carries **4** marks.*

19. Explain the different steps of Herbarium preparation.
20. Write the binomial, family and morphology of useful part of four spices.
21. Explain any four types of aestivations with examples.

22. Explain the diagnostic features of the family Lamiaceae.
23. Describe different types of cymose inflorescence.
24. Explain different types of dry dehiscent fruits with examples.   (4 x 4 = 16)

PART D

IV. Answer **ANY TWO** questions; each question carries **12** marks.

25. Describe Bentham and Hookers system of classification. Mention its merits and demerits.

OR

26. Describe Chemotaxonomy and Cytotaxonomy.

27. Explain the family characters of Asteraceae? Why it is considered as the most advanced family among dicots.

OR

28. Write the family characters of Poaceae.   (12 x 12 = 24)

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