

B. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER/NOVEMBER 2018**SEMESTER –3: BOTANY (COMPLEMENTARY FOR ZOOLOGY)****COURSE: U3CPBOT3: ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY***(For Supplementary - 2014 admission)*

Time: Three Hours

Max. Marks: 60

PART A*Answer ALL questions; each question carries 1 mark.*

1. Write any two significance of herbarium?
2. Define epigyny with one example.
3. Give a diagnostic vegetative character of family Lamiaceae?
4. What is meant by a complete flower?
5. Name a family showing epipetalous stamens?
6. What is the use of vasculum?
7. What is an actinomorphic flower? Give one example.
8. What is meant by monadelphous stamens?

 $(1 \times 8 = 8)$ **PART B***Answer ANY SIX questions; each question carries 2 marks.*

9. Distinguish between syncarpous and apocarpous nature of gynoecium.
10. Describe the type of inflorescence found in Asteraceae.
11. What are the merits of Bentham and Hooker's system of classification?
12. Write down the binomial of any two oil yielding plants giving their uses.
13. How will you distinguish artificial classification from natural classification? Give examples.
14. How does a corymb differ from a spike?
15. Distinguish between berry and drupe.
16. With the help of a neat diagram, explain different parts of stamen.
17. Write a note on the corolla of family Rubiaceae.

 $(2 \times 6 = 12)$ **PART C***Answer ANY FOUR questions; each question carries 4 marks.*

18. What is placentation? Explain any three types of placentation with the help of diagrams.
19. Write any four primitive characters of the family Annonaceae.
20. Describe the economic importance of the groundnut.
21. Briefly explain ICBN.
22. What is phylogenetic or evolutionary classification?
23. Describe spikelet of Poaceae with suitable diagram.
24. Differentiate the types of flowers based on the position of the ovary.

 $(4 \times 4 = 16)$

PART D

Answer ANY TWO questions; each question carries 12 marks.

25. Describe the various dry dehiscent fruits with suitable example.

OR

26. Give an account of plants that you have studied which produce biopesticides and spices with special reference to their binomial, family, morphology of useful parts and uses

27. What are the general characters of the family Malvaceae? Write the binomial of any two economically important plants belonging to this family.

OR

28. Describe the salient features of the family Euphorbiaceae with a suitable example and diagrams.

(12 x 2 = 24)
