Reg. No................................   Name..

B. Sc. DEGREE END SEMESTER EXAMINATION MARCH 2017
SEMESTER – 4: BSc BOTANY
COURSE: 15U4CRBOT4: ANATOMY AND ANGIOSPERM MORPHOLOGY
(Regular 2015 Admission)

Time: Three Hours   Max. Marks: 60

PART A
Answer **all** questions. Each question carries one mark

1. What are Tyloses?
2. What are Raphides?
3. What is intussusception?
4. What is Histoenzymology?
5. What are schizogenous cavities?
6. What is zygomorphic flower?
7. What is a corymb?
8. What is bifacial leaf?

(1 x 8 = 8)

PART B
Answer **any six** questions. Each question carries two marks.

9. Distinguish between Sapwood and Heartwood.
10. Explain Korper-Kappe theory.
11. What are the Extra cell wall thickening materials seen in plants?
12. Write brief notes on Laticiferous tissues.
13. Draw a labeled diagram of a Bordered pit.
14. Differentiate sclereids and fibers.
15. What are the different types of stomata? Give examples.
16. What are root modifications? Give two examples?
17. What is spadix? Give examples?
18. What are the different types of aestivation?

(2 x 6 = 12)

PART C
Answer **any four** questions. Each question carries four marks.
19. What are the different types of vascular bundles seen in plants?

20. Explain the structure and function of Ground tissue system in Dicot stem.

21. Give an account of distribution and function of mechanical tissues in plants

22. Explain various reserve food materials seen in plants.

23. Distinguish between monochasial cyme and dichasial cyme.

24. Write a brief note on special types of inflorescence with necessary diagrams.

<div align="center">(4 x 4 = 16)</div>

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PART D

Answer **any two** questions. Each question carries twelve marks.
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25. Explain the structure and function of complex tissues with the help of suitable illustrations.

<div align="center">OR</div>

26. Describe the normal secondary growth in dicot stem with the help of suitable diagrams.

27. Give an account on the structure and function of cambium. Add a note on the theories of apical organization.

<div align="center">OR</div>

28. Give an account of different types of fruits with suitable examples and illustrations

<div align="center">(12 x 2 = 24)</div>

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