TB153080A **Reg. No: ……**

Name: ……..

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016

SEMESTER III - CORE COURSE (BOTANY)

BO3B03TB - ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS

Time: Three Hours **Maximum Marks: 60**

PART A

I. Answer all questions. Each question carries 1 mark.

1. Define Plasmodesmata?
2. What is a Lenticel?
3. Bring out the importance of Bulliform cells?
4. Mention the functions of Tapetum.
5. What is Apomixis?

(5x1=5)

PART B

II. Answer any five questions. Each question carries 2 marks.

6. Differentiate Lysigenous cavity from Schizogenous cavity?
7. Write notes on the different types of Trichomes found in plants?
8. Bring out any four economic importance of plant fibres?
9. Differentiate storied cambium from non- storied cambium?
10. What are Tyloses?
11. Explain the different types of anthers based on their morphology.
12. Give an account of the different types of Apomixis found in plants.
13. Explain any four reasons that inhibits seed germination of plants.

(5x2=10)

PART C

III. Answer any five questions. Each question carries 5 marks.

14. Explain the gross structure of primary and secondary cell walls of plants?
15. Write notes on classification and distinguishing features of meristems.
16. What are stomata? Briefly explain the different types of stomata found in plants?
17. Explain the structure and function of Periderm with diagrams?
18. Give a short account of vascular cambium.
19. Bring out the structure and development of anther?
20. Bring out the relevance of Embryology?
21. Enumerate the different steps involved in the development of dicot embryo?

(5x5=25)

PART D

1V. Answer any two of the following. Each question carries 10 marks

22. Give an account of the different non-living inclusions in plant cells?
23. Explain the different theories regarding the apical organization of shoot apex?
24. Bring out the anomalous secondary thickening in Bignonia stem? Draw suitable diagrams?
25. Give an account of the different patterns of embryosac development in plants?

(2x10=20)