B 5005-x kr-ages z) Name..

Reg. No

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(U.G.—CCSS)

Core Course—BO 5B 05—ANGIOSPERM MORPHOLOGY, PLANT ANATOMY, REPRODUCTIVE BOTONY AND PALYNOLOGY

(2012 Admission onwards)

Time : Three Hours Maximum : 30 Weightage

I. Objective type questions (include multiple choices, fill in the blanks and answer in a single word) :

Answer all *twelve* questions :

Choose the correct answer :

1. Butress roots present in :
   (a) Butter fruit tree. (b) Banyan tree.
   (c) Coconut tree. (d) Beet root.
2. Plasmodesmatal connections present **in**
   (a) Primary wall. (b) Secondary wall.
   (c) Teritiary wall. (d) Wall with boarded pit.
3. Bicollateral vascular bundles seen in :
   (a) Cephalndra. (b) Grass.
   (c) Ixora. (d) Tinospora.
4. Syngenecious type of stamens in :
   (a) Sunflower. (b) Hibiscus.
   (c) Citrus. (d) Cephalandra.

Fill in the blanks :

5. **Monocot** embryo in grass is known as _____
6. Cork cambium is named as _____
7. Tunica corpus theory proposed by _____
8. **Hypanthodium** is a _____ type of inflorescence.

Answer in a word :

9. **Napiform** type of taproots seen in :
10. Type of fruit in mango is :
11. Cambium present in between xylem and phloem is known as :
12. Name an Indian **palynogist**.

(12 x = 3 Weightage)

Turn over

II. Short answer Questions. Answer all *nine* questions

13. Define palynology.
14. Invitro culture.
15. Triple fusion.
16. Phelloderm.
17. Amphicribral vascular bundles.
18. Coenanthium.
19. Pneumatophores.
20. Nut.
21. Apposition.

(9 x 1 = 9 Wei htag

III. Short essay *or* paragraph Questions. Answer any *five* questions :

22. What are the different types of pollination ? Give examples.
23. Give notes on polyembryony.
24. Nodal anatomy in angiosperm.
25. Role of anatomy in Taxonomy.
26. What are the theories in related to apical organization ?
27. Various type of simple dry fruits.
28. Give a brief account of aerial stem modifications with suitable examples.

(5 x 2 = 10 Weighta

IV. Essay questions. Answer any *two* questions :

29. Describe the different types of inflorescence with suitable examples.
30. Give a summary of various types of non living inclusions present in plants.
31. Write an essay on Megasporogenesis and the formation of embryo sac.

(2 x 4 = 8 Weighta