

DR. KANAILAL BHATTACHARYYA COLLEGE

SEMESTER – II (UNDER CBCS)

INTERNAL ASSESSMENT – 2020

BOTANY – PRACTCAL - HONOURS

PAPER - CC – 3

F.M – 15

Times: 2Hrs

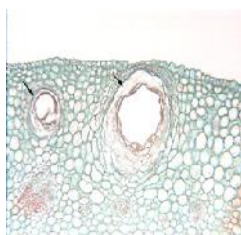
(I). Answer the following questions in brief

5X2

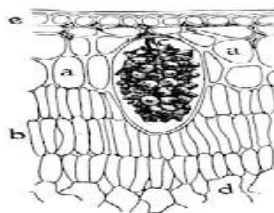
- Name some common stains which are used in anatomical study.
- Draw a labelled diagram of *Dracaena* stem (cellular details are required). Comment on its anatomical features.
- Draw a diagram of T. S of stem of *Bignonia* (Cellular details are required). What are the important anatomical features of the *Bignonia* stem (Mention only two features)?
- Write down few xerophytic anatomical features of *Nerium* leaf.
- Prepare a flow chart for making permanent slide

(II). Identify the following pictures and write down two characters

1X5



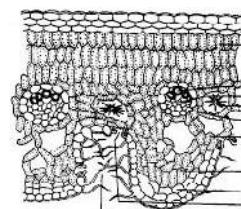
a.



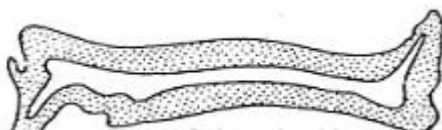
b.



c.



d.



e.

DR. KANAILAL BHATTACHARYYA COLLEGE

B.Sc. Semester II (Honours) Examination 2020

(Under CBCS system)

Botany Honours (Practical)

Paper: CC 4

(BOT-A-CC-2-4-P)

Full marks- 15

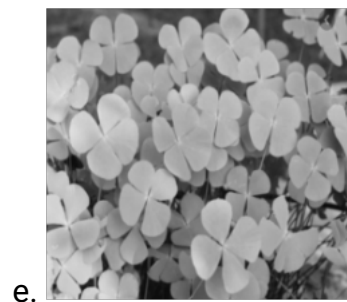
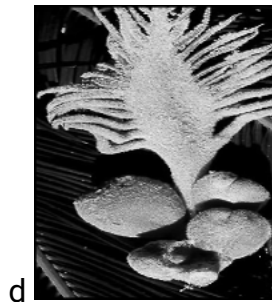
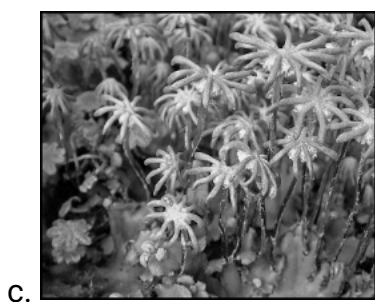
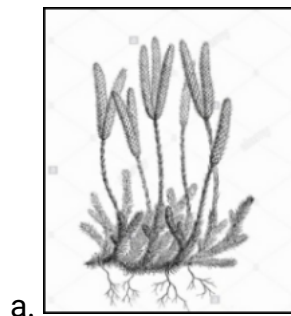
1. Answer the following in brief:

1×5

- a. Name one heterosporous lycopod.
- b. Define synangia.
- c. What is false indusium?
- d. Define sporangiophore.
- e. What are peristome teeth?

2. Identify the following with reason:

2×5



DR. KANAILAL BHATTACHARYYA COLLEGE

SEMESTER – II (UNDER CBCS)

PRACTICAL – 2021

BOTANY – HONOURS

BOT-A-CC-3

PLANT ANATOMY

DATE: 13/08/2021

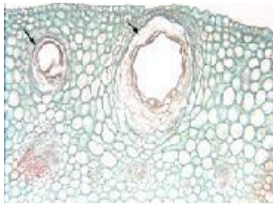
TIME: 10 A.M – 11:30A.M

F.M – 30

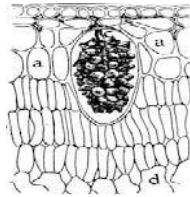
1. Identify the followings

DURATION – 1Hr30Min

2.5X4



(a)



(b)



(c)



(d)

2. Answer the followings (any two)

2X10

(A) What do you mean by anomalous secondary growth in plant? Draw a labelled diagram of *Bignonia* stem. Write down its main anatomical features. Comments on its anomalous secondary growth.

2+2+4+2

(B) Draw a labelled diagram of monocot stem. Write down its anatomical features. Distinguished between monocot root and dicot root.

4+4+2

(C) Draw a labelled diagram of *Dracaena* stem. Write down the anatomical features. Mention its anomalous secondary growth.

4+4+2

(D) What are hydrophytes? Draw a petiole of Hydrophytic plant and label it. Write down its anatomical features. Comments on its hydrophytic nature.

1+4+3+2

DR. KANAILAL BHATTACHARYYA COLLEGE

B.Sc. Honours Examination (CBCS system)– 2021

**Practical Examination
Semester-II
Subject-BOTA
Paper: CC-4 (Archegoniate)**

Time: 1 hour 30 min (2:00 P.M - 3:30 P.M)

Date: 13.8.2021

Full marks-30

Answer **any three** of the following

1. Draw, label and describe a reproductive structure of *Selaginella*. 3+2+5
2. Draw, label and describe a reproductive structure of *Equisetum*. 3+2+5
3. Write the staining procedure followed for staining of reproductive structure of Pteridophytes. 10
4. Write the identifying features of the following with diagram: 2½×4
 - a. *Riccia* thallus
 - b. Sporophyte of *Lycopodium*
 - c. Microsporophyll of *Cycas*
 - d. Male cone of *Gnetum*
5. Write the identifying features of the following with diagram: 2½×4
 - a. L.S. of gemma cup of *Marchantia*
 - b. T.S. of synangium of *Psilotum*
 - c. L.S. of sporocarp of *Marsilea*
 - d. L.S. of female cone of *Pinus*