#### DR. KANAILAL BHATTACHARYYA COLLEGE

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

## Practical Examination Semester-IV Subject-BOTA

Paper: CC-8 (Plant geography, ecology and evolution)

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

Date: 16.8.2021

#### Full marks-30

### Answer any three of the following

Write the effects of pollution on plant anatomy.

2. Describe the principle and method for measurement of dissolved  $O_2$  by azide modification of Winkler's method. Name the different chemical reagents used for

this experiment.

1.

2+5+3

3. Describe the principle and method for determination of free  $CO_2$ . Name the different reagents used for this experiment. 2+5+3

4. Describe the process of Quadrat study.

10

10

5. Define Quadrat. Write the different objectives of this method. How do you calculate frequency, density and abundance during Quadrat study? 2+2+2+2

## DR. KANAILAL BHATTACHARYYA COLLEGE

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

# Practical Examination Semester-IV

**Subject-BOTA** 

**Paper: CC-9 (Economic botany)** 

Time: 1 hour 30 min (10:00 A.M - 11:30 A.M) Date: 17.8.2021

### Full marks-30

## Answer any three of the following

Answer any three of the following			
1.	Write	chemical tests for tannin.	10
2.	Write	chemical tests for fat in crushed seeds of Mustard.	10
3.	Write	chemical tests for Sugarcane.	10
4.	Write	the identifying characters of the following:	2½×4
	a.	Digitalis	
	b.	Cannabis	
	c.	Mustard	
	d.	Sugarcane	
5.	Descr	ibe the features of internal structure of Sal and Teak.	5+5

#### DR. KANAILAL BHATTACHARYYA COLLEGE

**SEMESTER - IV (UNDER CBCS)** 

PRACTICAL - 2021

**BOTANY - HONOURS** 

BOT-A-CC-10

**GENETICS** 

TIME : 2P.M - 3:30P.M

DATE: 18/08/2021

F.M – 30 (A) Answer the followings (any two)

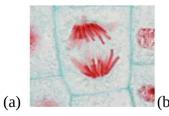
DURATION – 1Hr 30Min 2X10

- **1.** How can you prepare permanent cytological slide describe it stepwise. Name some common fixative agents for study of cell division. What is squash preparation? **4+3+3**
- 2. Describe the procedure for the preparation of stain (2% acetorcein) for cytological study. How can you determine the mitotic index describe briefly. 5+5
- 3. What do you mean by hydrolysis for root tip preparation to study the chromosome? Mention its importance.
- 4. Describe the squash preparation procedure. How can you prepare a temporary slide to study the mitosis in root tips? Draw any two stage of mitosis and label it.

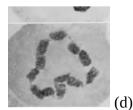
5+5

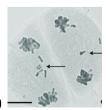
#### (B) Identify the followings with reason











2X5