

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

1. Write the effects of pollution on plant anatomy. 10
2. Describe the principle and method for measurement of dissolved O₂ by azide modification of Winkler's method. Name the different chemical reagents used for this experiment. 2+5+3
3. Describe the principle and method for determination of free CO₂. Name the different reagents used for this experiment. 2+5+3
4. Describe the process of Quadrat study. 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+2

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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

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. Describe the features of internal structure of Sal and Teak. 5+5

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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

DURATION – 1Hr 30Min

(A) Answer the followings (any two)

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% acetocein) 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

