

**2020**

**CITY COLLEGE**

**BOTANY – HONOURS**

**INTERMEDIATE EXAMINATION (ONLINE) UNDER CBCS (CU) 2020**

**Semester IV**

**Paper – CC 8**

**Date of Examination: 12. 12. 2020**

**Time: 11 AM – 3 PM**

**GROUP A**

**INTERNAL ASSESSMENT**

**Full Marks - 10**

**Answer in brief (Any Ten).**

**10x1 = 10**

1. Define 'habitat'.
2. Define 'carrying capacity'.
3. Distinguish between ecads and ecotypes.
4. Give an example of Pioneer sp. Of Sundarban.
5. What are 'seral stages' in plant succession?
6. What is 'pioneer vegetation'?
7. What is 'climax community'?
8. What is 'seed bank'?
9. What is 'cryopreservation'?
10. Name one biodiversity 'hot spot' of south India.
11. Name the book written by Charles Darwin on 'evolution'?
12. Define 'evolution'.
13. What is 'phyletic gradualism'?
14. What is 'stasis'?
15. Who proposed 'neutral theory of molecular evolution'?
16. What is 'punctuated equilibrium'?
17. Define 'paleoendemic'.
18. Define 'neoendemic'.
19. What is 'endemism'?
20. What are 'metalrophytes'?

**2020**  
**CITY COLLEGE**  
**BOTANY – HONOURS**  
INTERMEDIATE EXAMINATION (ONLINE) UNDER CBCS (CU) 2020  
Semester IV Paper – CC 8  
**GROUP B**  
**T H E O R Y**  
Full Marks – 25

**A. Answer any two of the following: 2 x 10 = 20**

1. What is 'plant succession'? Distinguish between primary and secondary succession. Discuss, in brief, with suitable diagrams and examples, the different 'seral stages' with reference to 'hydrosere'? 1+2+7 = 10
2. What is 'phytogeography'? Mention the different 'phytogeographical zones' present in India. Write notes on flora of lower gangetic plains with particular reference to Sundarban. 1 + 3 + 6 = 10
3. Define 'bio diversity'. What is 'biodiversity hot spots'? Discuss, in brief, the different methods of biodiversity conservation. 1 + 1 + 8 = 10
4. What is 'phytoremediation'? Discuss, in brief, the different types of 'phytoremediation. Add a note on advantages of phytoremediation. 1 + 6 + 3 = 10

**B. Write notes on (any one) 1 x 5 = 5**

1. Factors controlling Endemism.
2. Ecotone and Edge Effect.
3. Characteristic features of a Plant Community.
4. Plant Indicators.

**2020**

**CITY COLLEGE**

**BOTANY – HONOURS**

**INTERMEDIATE EXAMINATION (ONLINE) UNDER CBCS (CU) 2020**

**Semester IV**

**Paper – CC 8**

**GROUP C**

**PRACTICAL**

**Full Marks - 15**

**Answer any three**

**3 x 5 = 15**

1. How do you determine the minimum size of the Quadrat?
2. Draw and explain 'species area curve'.
3. Write a note on phytogeographical characteristics of the area in and around Kolkata.
4. Draw a map of India and plot the different phytogeographical regions on it (Chatterjee 1939).
5. Phyto geographical characteristics of the Kalimpong – Lava area you visited during you long Botanical excursion.
6. Write a note on the morppho-anatomical changes found in the leaves exposed to pollution.

**INSTRUCTION FOR SUBMISSION OF ANSWER SCRIPTS**

**Scan pages sequentially. Convert the scanned pages to a single PDF document. Name the document mentioning the CU Roll Number. Send the document to the following email: botanycity.s4hons@gmail.com.**