

**DR. KANAILAL BHATTACHARYYA COLLEGE**

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

**Internal Assessment**

**Semester-IV**

**Subject-BOTA**

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

**Time: 30 min (12:00 P.M - 12:30 P.M)**

**Date: 16.7.2021**

**Full marks-10**

1. Answer the following in brief (any ten): 1×10
- a. Write the criteria for hotspot.
  - b. Define autogenic succession and allogenic succession.
  - c. What is phytoremediation?
  - d. Write the definition of microclimate.
  - e. Write the definition of seral stages.
  - f. What do you mean by hydrosere?
  - g. Write the definition of phytogeographical regions.
  - h. What is biodiversity?
  - i. Name two Indian hotspot.
  - j. Write the definition of sympatric and allopatric speciation.
  - k. Write the definition of *in-situ* conservation.
  - l. What do you mean by cryopreservation?
  - m. Write the definition of natural selection.
  - n. Name the different phytogeographical regions of India  
(According to D. Chatterjee, 1960)
  - o. What is succession?

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**Internal Assessment**

**Semester-IV**

**Subject-BOTA**

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

**Time: 30 min (12:00 P.M - 12:30 P.M)**

**Date: 17.7.2021**

**Full marks-10**

1. Answer the following in brief (any ten): 1×10
- a. Write briefly health hazards of *Cannabis*.
  - b. Mention two uses of wheat. Name two varieties of rice.
  - c. Write the scientific name and family of Teak.
  - d. Write the scientific name of mung bean.
  - e. Name two plants where spices are obtained from leaves.
  - f. Name one plant and family where spices is obtained from bark.
  - g. Write scientific name of sugar yielding plants.
  - h. Write two features of timber.
  - i. Write botanical name and uses of coconut plant.
  - j. Mention medicinal uses of *Digitalis*.
  - k. Write the definition of essential oils.
  - l. Write scientific name of two fiber yielding plants.
  - m. Write briefly uses of *Cinchona*.
  - n. Describe morphological features of Tobacco.
  - o. Name two plants with bulbs (rhizome) used as spices.

**DR. KANAILAL BHATTACHARYYA COLLEGE**  
**SEMESTER – IV (UNDER CBCS)**  
**INTERNAL ASSESSMENT – 2021**  
**BOTANY – HONOURS**  
**BOT-A-CC- 10**  
**GENETICS**  
**DATE: 19 – 07 - 2021**

**F.M – 10**

**Time: 12P.M – 12:30P.M**

*Answer the following questions (any ten)*

**1X10**

- a. What do you mean by mapping function?
- b. What are linked genes?
- c. Explain aneuploidy.
- d. Define frame shift mutation with an example.
- e. Explain about tautomerisation.
- f. Define chromosomal translocation.
- g. What is Co-efficient of coincidence?
- h. Explain ABC model of flower development.
- i. What do you mean by overlapping gene?
- j. Define transposon with example.
- k. What is split gene?
- l. Write down the full name of FISH.
- m. Write down the cytological effects of duplication.
- n. Explain Epistasis with example.
- o. Explain base analogues incorporation with example.

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**SEMESTER – IV (UNDER CBCS)**  
**INTERNAL ASSESSMENT – 2021**  
**BOTANY – HONOURS**  
**SEC - B**  
**MUSHROOM CULTURE TECHNOLOGY**

**DATE: 20/07/2021**

**F.M – 10**

**Time : 12P.M – 12:30P.M**

***Answer the followings (any ten):***

**1X10**

- a. Name two poisonous mushrooms
- b. What do you mean by composting unit for mushroom cultivation?
- c. Mention two food recipes of mushroom
- d. Mention two medicinal important mushrooms (Scientific name of mushroom)
- e. What is spawn?
- f. What are the cultivation medium of Button Mushroom?
- g. What are the typical characters (only two) of poisonous Mushroom?
- h. Name two example of Basidiomycetous Mushroom (Scientific name only).
- i. What is death cap?
- j. What are the main laboratory equipments needed for Mushroom Cultivation?
- k. Name any Mushroom research institute.
- l. Why Banana leaves are used for mushroom cultivation?
- m. Which type of amino acid is very rich in Mushroom?
- n. What are the main components of PDA medium?
- o. What is humidifier chamber?