CITY COLLEGE EXAMINATION CENTRE

B.Sc. (General) Semester - IV EXAMINATION, 2020

According to Calcutta University Botany General (CBCS)

Syllabus

Subject: BOTANY

Paper: SEC B (Plant Biotechnology)

Time: 4 hours

GROUP: A (Internal assessment)

Full marks: 10 (Answer any one of the questions) 1*10 = 10

What do you mean by micropropagation? Write a brief note on somatic embryogenesis.

Define recombinant DNA. What is restriction enzyme? Give two examples of such enzyme.
3+3+4

GROUP: B (Theory)

Full marks: 40 (Answer any four questions) 4*10= 40

What is protoplast culture? Write down the application of protoplast culture?
2+8

2. What are the properties of a plasmid that can be used as a vector? Write a short note on plasmid pBR322. 5+5

 What is cellular totipotency? What do you mean by artificial seed? Write some applications of plant tissue culture.

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4. Discuss callus culture and plant regeneration. 5+5

क्रामाअ अर्थन ७ जार्राष्ट्रभामन अद्युक्त जिल्लाकम करे।

Briefly describe the steps of gene cloning with diagram.

10 रिजेशहितादम शिष दियात - १३- शुक्रीय अदिश्वद्र -

 What do you mean by transgenic crops? Give one example of such crop. Write down the applications of transgenic crops in crop biotechnology.
3+1+6

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