

22171

II SEMESTER UG EXAMINATION, JULY/AUGUST 2023

014

SCHEME: SEMESTER (NEP)

OPEN ELECTIVE: BIOTECHNOLOGY

TITLE: APPLICATIONS OF BIOTECHNOLOGY IN AGRICULTURE

Time: 2 ½ Hours

Max Marks: 60

Instructions to Candidates: Draw neat and labelled diagram wherever necessary.

1. Answer any TEN questions. 10x2=20
 - a. What are Bioenterprises? CO1 LL1
 - b. What do you mean by primary commercial setup? CO1 LL1
 - c. What is callus? CO1 LL1
 - d. Write the name of two plant growth hormones used in plant tissue culture. CO1 LL1
 - e. What is Biopesticide? CO2 LL1
 - f. What are genetically modified crops? CO2 LL1
 - g. Name any two flavours. CO2 LL1
 - h. What are Baculovirus? CO2 LL1
 - i. Define IPR. CO3LL1
 - j. What are plantibodies? CO3LL1
 - k. Write any two bioethical issues associated with molecular pharming? CO3LL1
 - l. What are nutraceuticals? CO3LL1

- II. Answer any FOUR questions. 4x10 =40
 2. Explain mushroom cultivation in detail. CO1 LL2
 3. What is micro propagation? Describe the various steps involved in micropropagation. CO1 LL2
 4. Discuss production, safety, ethics and acceptance of Bt. Cotton. CO2 LL2
 5. Fungi as biopesticide, explain with suitable example. CO2 LL2
 6. What is molecular pharming? Discuss about edible vaccines. CO3 LL2
 7. Detail about antisense RNA technology used for extending shelf life of fruits. CO3 LL2

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