



RAN - 2103001106020005

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**B.Sc. Biotechnology (Sem. VI) Examination March - 2025**

**Plant Biotechnology**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

**B.Sc Biotechnology (Sem. VI)**

Name of the Subject :

**Plant Biotechnology**

Subject Code No.: **2103001106020005**

Seat No.:

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Student's Signature
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**Q-1: Define Any Four: (8)**

- Totipotency & Organogenesis
- De & Redifferentiation
- Growth Regulators
- Callus & Vitrification
- Germplasm conservation

**Q-2: Attempt Any Two: (14)**

- Discuss in detail the preparation of Murashiage and Skoog plant tissue culture medium.
- Describe Cytodifferentiation and Organogenic differentiation
- Design Plant tissue culture laboratory on the basis of laboratory requirements and techniques.

**Q-3: Explain in detail Any Two: (14)**

- What is micropropagation? Discuss details of different types of micropropagation technique.

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**[ 1 ]**

**[ P.T.O. ]**

**P0292**

