



DF-1540
M. Sc. (Sem. III) Examination
March / April - 2016
BOT - 303 : Genetics, Biotechnology & Bioinformatics

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>नीचे दृष्टायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : M. SC. (SEM. 3)</p> <p>Name of the Subject : BOT - 303 : GENETICS, BIOTECH. & BIOINFORMATICS</p> <p>Subject Code No. : 1 5 4 0 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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(2) Sketch neat and labeled diagram wherever necessary.

(3) Figures to the right indicate full marks of the question.

1. Describe: (14)

1. Artificial seed
2. PCR

2. Explain: (14)

1. Basic concept, scope and importance of plant tissue culture.
2. Computer software and their application.

3. write briefly (Any two) (14)

1. Application of Bioinformatics
2. Tools of Bioinformatics
3. Restriction endonuclease

4. Describe (Any two) (14)

1. World Intellectual property organization (WIPO)
2. Somatic embryogenesis
3. DNA isolation

5. Write notes on: (Any two) (14)

1. Principles and methods of recombinant DNA technology
 2. Callus culture
 3. Farmer's right and their benefits.
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