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[Total No. of Printed Pages : 2

Total No. of Questions : 5]

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M.Sc. 3rd Semester (NEW/ATKT) Biotechnology Examination Nov./Dec., 2017 **PLANT BIOTECHNOLOGY**

Paper - III

Time Allowed: Three Hours]

[Maximum Marks : 85

Note: Attempt all questions.

Explain in detail what do you understand by single cell Q.1.

Write notes on:

- Double haploid production
- Tissue culture technique

Unit - II

Explain the techniques of meristem culture for production Q.2. of virus free plant? OR

Write notes on:

- a) Gene banks
- b) Somatic hybridization

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(2)

Explain Agro bacterium: a natural tool for plant transformation. 17 03

OR

Explain the PCR based markers in plant genome analysis.

Unit - IV

Explain the production of secondary metabolites by plant Q.4. cell culture.

OR

Write notes on:

a) Biological control of pests and diseases in plants.

Seed production techniques COTT

Explain biological patent and its bioethical issues. Q.5. OR

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What do you understand by socio economic impact and ecological consideration of GMO's.

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