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BTH 502

Third Semester M.Sc. Degree Examination, December 2018

BIOTECHNOLOGY

(CBCS)

Plant Biotechnology

Time : 3 Hours

Max. Marks : 70

PART – A

Write short notes on **any ten** of the following (**not exceeding 1 page each**). **(10×2=20)**

1. a) RNA editing.
- b) Somaclonal variation.
- c) Synthetic seeds.
- d) Secondary metabolites.
- e) Callus culture.
- f) Nif and nod genes.
- g) Pharmacognosy.
- h) Bioreactor.
- i) Mitochondrial DNA.
- j) Suspension cultures.
- k) Transgenesis.

PART – B

Write explanatory notes on **any five** of the following (**not exceeding 3 pages each**). **(5×6=30)**

2. Biological oxidation in plants.
3. Seed development and seed storage proteins.
4. Plant derived vaccines.
5. Bt cotton.
6. Regulation of gene expression in seed germination.
7. Plantibodies.
8. GM food.

P.T.O.



PART – C

Answer **any two** of the following (**not** exceeding **7** pages **each**). **(2×10=20)**

9. Explain plant breeding mechanisms with various steps and add a note on its importance.
 10. Discuss regulation of gene expression in floral and leaf development.
 11. Explain methods of plant tissue preservation and their applications.
 12. Discuss development of transgenic plants for bacterial and fungal resistance.
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