

Total No. of Questions : 4]

SEAT No. :

P1135

[5017] - 3077

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**T.Y.B.Sc. (Vocational)
BIOTECHNOLOGY**

**VOC- Biotech - 335 : Plant And Animal Biotechnology
(2013 pattern) (Semester - III) (Paper - V)**

Time : 2 Hours]

[Max. Marks : 40

- Instructions :*
- 1) All questions are compulsory.*
 - 2) Neat diagrams must be drawn wherever necessary.*
 - 3) Figures to the right full marks.*
 - 4) Use of calculator is allowed.*

Q1) Answer each of the following :

[10]

- a) What are stem cells?
- b) Name two cytokinins.
- c) Give two disadvantages of somaclonal variation.
- d) Define cell fusion.
- e) What are vaccines?
- f) What is electroporation?
- g) Define established cell lines.
- h) What is gynogenesis?
- i) What is *Agrobacterium rhizogenes*?
- j) Name two secondary metabolites.

Q2) Answer any two of the following :

[10]

- a) What is meant by somatic embryogenesis? Explain production of Somatic embryos?
- b) What is gene therapy? Explain types of gene therapy.
- c) Explain production of monoclonal antibodies.

P.T.O.

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