

Roll No. _____

[Total No. of Pages : 2

PGIVS-N 1633 A-2K13
M.Sc. IVth Semester (CBCS) Degree Examination
Biotechnology
(Plant Biotechnology)
Paper - HCT4.1
(New)

LIBRARY
PGIVS-N 1633 A-2K13
HCT4.1
2013

Time : 3 Hours

Maximum Marks : 80

Instructions to candidates:

- i) Section 'A' has all compulsory questions.
- ii) Answer 'B' and 'C' sections as per instructions.

Section - A

Answer the following in brief:

(10×2=20)

- 1) Ti-Plasmids.
- 2) Gene targeting
- 3) Biofuels
- 4) Caulogenesis
- 5) Electroporation
- 6) AFLP
- 7) Bacterial Resistance.
- 8) Salt fractionations
- 9) Artificial Seed.
- 10) Farmer's Rights.

Section - B

Answer any **four** of the following:

(4×6=24)

- 11) Germplasm conservation.
- 12) Cybrids and somatic cell genetics.
- 13) Grain quality and grain yield.
- 14) Seed storage proteins.
- 15) Patenting of biological material
- 16) Gene transfer methods.

Section - C

Answer any **three** of the following:

(3×12=36)

17. Describe in detail the production of pharmaceutically important compounds.
18. Describe the method of Agrobacterium mediated gene transformation.
19. Give an account on androgenesis and its application in genetics and plant breeding.
20. Write a note on Molecular mapping.