DR-1826
M. Sc. (Sem. VI) (Int. Biotechnology) Examination
April / May - 2016
Plant Biotechnology
(Core 1 - Course 5)

Time : 2 Hours] [Total Marks : 50

Instructions :

(1) Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. Sc. (SEM. 6) (INT. BIOTECHNOLOGY)

Name of the Subject :
PLANT BIOTECHNOLOGY (CORE 1 - COURSE 5)

Subject Code No. : 1 8 2 6 Section No. (1, 2,.....) : Nil

Seat No. :

(2) Figures to the right indicate full marks.

(3) Draw neat and labeled diagrams wherever necessary.

1 Define any four :

(a) Embryogenesis
(b) Callus
(c) Differentiation
(d) Hardening
(e) Totipotency

2 Attempt any two :

(a) Write the detailed composition of Gamborg B5 medium
(b) Discuss the steps involved in preparation of tissue culture medium
(c) Discuss various methods of sterilization in plant tissue culture.
3. Explain in detail any two:

(a) What are the various approaches used in micropropagation technique? Explain any one in detail.

(b) Discuss the details of embryogenesis and somatic embryogenesis.

(c) Elaborate the advantages, disadvantages and applications of synthetic seeds.

4. Attempt any two of the following:

(a) What is haploid culture? List out the applications and limitations of haploid culture.

(b) Mention and elaborate the factors affecting androgenesis and gynogenesis techniques.

(c) Give the details of the factors affecting isolation of protoplast.