

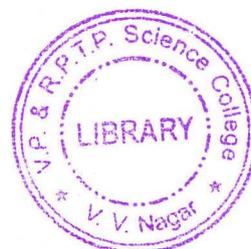
V.P. & R.P.T.P.SCIENCE COLLEGE  
INTERNAL TEST  
B.Sc. VI<sup>th</sup> SEMESTER  
BOTANY-US06CBOT05

Date-14/03/2014  
Day- Friday

Marks-30  
Time-3.30-5.00p.m.

Q-1 Answer in short (any three).

- (i) Define the terms: (a) Totipotency (b) Explant
- (ii) Differentiate between Hybrid and Cybrid.
- (iii) What are the functions of different types of REs?
- (iv) What are the applications of PCR?
- (v) What are the features of cosmids?
- (vi) What is the role of Tum genes?



(06)

- Q-2 (a) Briefly describe the growth hormones added to the culture medium.  
(b) What are the applications of plant tissue culture?

(05)

(03)

OR

- Q-2 (a) What are the contributions of the following scientists?  
(i) Hanning (b) Nitch and Nitch (iii) Skoog (iv) Braun

(04)

*(b) What are the applications of micropropagation?*

(04)

- Q-3 Explain Sanger-Coulson method of DNA sequencing.

(08)

OR

- Q-3 Describe the construction of Genome Library.

(08)

- Q-4 Describe the organization of a typical plant gene.

(08)

OR

- Q-4 (a) Briefly describe the direct gene transfer method by microprojectile bombardment.  
(b) What are the general features of a vector?

(04)

(04)