

V.P.and R.P.T.P.science college
Internal Test, S.Y.,B.Sc. 4 Sem.

Subject: Botany

Day: Wednesday

Time: 10.30 to 12 Noon

Course:US04CBOT02

Date: 18.03.2015

Marks:25

Q.1. Multiple choice questions. Answer all. 03

(a) Which one of the following is a lateral meristem?

- (i) Vascular cambium (ii) Apical meristem (iii) Cork (iv) Parenchyma

(b) In which of the following plant cleistogamous flowers occur?

- (i) *Helianthus* sp. (ii) *Commelina* sp. (iii) Fig (iv) *Vallisneria*

(c) Virus free plants can be regenerated through the technique of?

- (i) Apical meristem culture (ii) Protoplast fusion (iii) Cross pollination
(iv) Layering

Q.2. Short answer question. Attempt any two. 04

(a) What is interxylary phloem? Name the plant in which it occurs.

(b) What are the main advantages of cross pollination?

(c) Describe the importance of Aseptic conditions in a tissue culture Lab.

Q.3. Describe the various types of stomata studied by you. 06

OR

Q.3. Describe the structure , distribution and functions of nectaries. 06

Q.4. Describe the development of male gametophyte in angiosperms. 06

OR

Q.4. (a) Sketch and label a typical 8 nucleate embryo sac. 03

(b) Define double fertilisation and explain its importance. 03

Q.5. What is sterilisation? Describe the various methods to achieve this. 06

OR

Q.5. Write short notes on:

(a) Role of Biotechnology in agriculture. 03

(b) Importance of protoplast fusion. 03

