

V. P. and R .P. T. P. Science college
Internal Test; S.Y., B.Sc. 4 Semester

Subject: Botany

Course:US04CBOT02

Day: Saturday

Date: 11.03.2017

Time: 3-4.30 pm.

Marks: 25

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

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- (a) Which one of the following is a true secondary meristem tissue?
(i) Vascular cambium (ii) Apical meristem (iii) Cork-cambium (iv) Parenchyma
- (b) In which of the following plant self pollination is obligatory?
(i) *Helianthus* sp. (ii) *Commelina* sp. (iii) *Ficus* sp. (iv) *Vallisneria* sp.
- (c) Which one of the following chromosomes are at equatorial plane ?
(i) Diplotene (b) Pachytene (c) Anaphase (d) Metaphase

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

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- (a) What is secondary growth? Name the meristems responsible for this growth.
- (b) Describe the advantages of cross pollination.
- (c) Define test cross.

Q.3. Describe the structure of a stomata.

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OR

Q.3. Distinguish between the articulated and the non-articulated laticifers and discuss in detail their probable functions.

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

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OR

Q.4. (a) What is an embryosac. Describe the functions of it's component cells.

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(b) Describe the organisation of various types of endosperms in angiosperms.

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Q.5 Describe the contribution of Mendel in the field of genetics.

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OR

Q.5. Describe incomplete dominance citing suitable examples.

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