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Name.....
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Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2015

(UG—CCSS)

Complementary Course—Botany

**BO 4C 04—MORPHOLOGY SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT
BREEDING AND HORTICULTURE**

(2009—2011 Admissions)

Time : Three Hours

Maximum : 30 Weightage

- I. Objective type questions (include multiple choice, fill in the blanks and answer in a single word).
Answer all *twelve* questions.

Choose the correct answer :

1 One among the following is a natural system of classification :

- (a) Linnaeus's system. (b) Bentham and Hooker's system.
(c) Engler and Prantle's system. (d) Bessey's system.

2 Type of phyllotaxy in *Ixora* is :

- (a) Alternate. (b) Whorled.
(c) Opposite. (d) Spiral.

3 Botanical name of Gingelly is :

- (a) *Oryza satavia*. (b) *Cocos nucifera*.
(c) *Sesamum indicum*. (d) *Syzigium aromaticum*.

4 Father of systematic botany :

- (a) Theophrastus. (b) John Ray.
(c) Bentham. (d) Linnaeus.

Fill in the blanks :

- 5 Marginal placentation is a characteristic feature of _____ family.
6 Sudden heritable changes are known as _____.
7 In a flower anthers of stamens are united, is known as _____.
8 Intergeneric hybridization is in between two _____.

Turn over

Answer in a word :

- 9 Which type of propagation is layering ?
- 10 Common name of *Thea sinensis*.
- 11 Headquarters of Botanical Survey of India is located at :
- 12 Stamen arising from petals is known as :

(12 × ¼ = 3 weightage)

II. Short answer questions. Answer *all* nine questions. Each question carries 1 weightage :

- | | |
|------------------------------|---|
| 13 Define Cyathium. | 14 Imbricate aestivation. |
| 15 Binomial nomenclature. | 16 Artificial system of plant classification. |
| 17 Priority of publications. | 18 Chemotaxonomy. |
| 19 Binomial of rubber tree. | 20 Mass selection. |
| 21 Air layering. | |

(9 × 1 = 9 weightage)

III. Short essay or Paragraph questions. Answer any *five* questions. Each question carries 2 weightage :

- 22 Different types of cohesion and adhesion of stamens.
- 23 Floral characters of Rubiaceae.
- 24 Numerical taxonomy.
- 25 Write binomial and family of four medicinal plants in your syllabus.
- 26 Different types of hybridization.
- 27 Different methods of grafting.
- 28 Bentham and Hooker's system of classification.

(5 × 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions. Each question carries 4 weightage :

- 29 What is an inflorescence ? Describe the different types of inflorescence.
- 30 Give the important characters of the family Fabaceae. Compare its subfamilies.
- 31 Write an account on herbarium techniques.

(2 × 4 = 8 weightage)