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Name.....51.....

Reg. No.....

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

(UG—CCSS)

Complementary Course—Botany

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

(2012 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

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

Choose the correct answer :

1 One among the following is not a Racemose inflorescence :

- (a) Spike. (b) Spadix.  
(c) Umbel. (d) Coenanthium.

2 In which family Clove belongs to :

- (a) Myrtaceae. (b) Poaceae.  
(c) Malvaceae. (d) Rubiaceae.

3 Bentham and Hooker's system of classification is a :

- (a) Phylogenetic. (b) Artificial.  
(c) Polynomial. (d) Natural.

4. In a flower the filaments of the stamens are united to form a single bundle :

- (a) Synandrous. (b) Syngenesious.  
(c) Monadelphous. (d) Polyadelphous.

Fill in the blanks :

5 Interpetiolar stipule is seen in the family \_\_\_\_\_.

6 Cyathea inflorescence is seen in the family \_\_\_\_\_.

7 Binomial of Wheat is \_\_\_\_\_.

8 Grafting is a \_\_\_\_\_ method of propagation.

Turn over



Answer in a word :

- 9 Hybridization in between two species.
- 10 Morphology of the useful part of *Hevea brasiliensis*.
- 11 Father of plant taxonomy is :
- 12 Common name of *Sesamum indicum*:

(12 × ¼ = 3 weight)

II. Short answer questions. Answer all *nine* questions :

- 13 Botanic Gardens.
- 14 Mutation breeding.
- 15 Binomial of *two* pulses that you have studied.
- 16 Cytotaxonomy.
- 17 Budding.
- 18 Herbarium.
- 19 Gynoecium in Apocynaceae.
- 20 Axile placentation.
- 21 Verticillaster inflorescence.

(9 × 1 = 9 weight)

III. Short essay or paragraph questions. Answer any *five* questions :

- 22 Explain different types of phyllotaxy with examples.
- 23 Special types of inflorescence.
- 24 Major Botanical gardens in India.
- 25 Different types of selection in plant breeding.
- 26 Important characters of the family Rubiaceae.
- 27 Botanical name, family and morphology of the useful part of Gingelly and Cardamom.
- 28 Different types of aestivation.

(5 × 2 = 10 weight)

IV. Essay questions. Answer any *two* questions :

- 29 What is hybridization? Describe the stages involved in hybridization. Point out its role in improvement.
- 30 Write the important characters of the family Poaceae. Give the economic importance.
- 31 Bentham and Hooker's system of classification. Explain its merits and demerits.

(2 × 4 = 8 weight)