

C 62078

(Pages 2)

Name.....

40

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014

(UG-CCSS)

Complementary Course

Botany

B0 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 Which is the useful part in green gram ?

- (a) Endosperm. (b) Embryo.
(c) Cotyledons. (d) seed coat.

2 Double follicle is seen in :

- (a) Ixora. (b) Alstonia.
(c) Hibiscus. (d) Phaseolus.

3 Ovary is inferior in :

- (a) Pisum sativum. (b) Vinca rosea.
(c) Ixora. (d) Allamanda.

4 Family in which the flowers are unisexual :

- (a) Malvaceae. (b) Fabaceae.
(c) Rubiaceae. (d) Euphorbiaceae.

Fill in the blanks :

5 Mutation breeding in wheat was initiated in India by _____.

6 Artificial system of classification was introduced by _____.

7 Morphology of cloves is _____.

8 Descendants of a single homozygous self fertilized individual are called _____.

Turn over

Answer in a single word :

- 9 The binomial ofgingelly.
- 10 The arrangement of sepals and petals in bud condition.
- 11 Name the fruit in Poaceae.
- 12 Family in which presence of stipule is characteristic.

(12 × ¼ = 3 weightage)

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

- 13 Give an account of layering.
- 14 Describe rule of priority.
- 15 What is a herbarium ? Mention its significance.
- 16 Chemotaxonomy and its significance.
- 17 Describe intergeneric hybridization with an example.
- 18 Mention the binomial and morphology of useful part of turmeric and pepper.
- 19 What do you mean by ICBN ?
- 20 Explain hypanthodium with an example.
- 21 Give an account of breeding for disease resistance.

(9 × 1 = 9 weightage)

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

- 22 Conditions for valid publication.
- 23 Mention the binomial, family, morphology of useful parts and uses of wheat and cotton.
- 24 What are the important floral characters of Apocynaceae ?
- 25 Explain the different types of aestivations.
- 26 Compare the flowers of the subfamilies of Fabaceae
- 27 Explain grafting and its advantages.
- 28 Explain the spikelet of Poaceae.

(5 × 2 = 10 weightage)

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

- 29 Define herbarium. Describe the preparation. Add a note on the important herbaria.
- 30 What is an inflorescence ? Describe the various types of racemose inflorescences.
- 31 Describe the importance of mutation breeding as a method of crop improvement.

(2 × 4 = 8 weightage)