

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Core Course

Botany

BO 5B 07—ANGIOSPERM SYSTEMATICS, ECONOMIC BOTANY AND ETHNOBOTANY

(2012 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Objective type questions. Answer *all* questions. Multiple choice, fill in the blanks and answer in a single word questions :

1 Hooded anther is a characteristic feature of the family :

- (a) Malvaceae. (b) Acanthaceae.
(c) Poaceae. (d) Annonaceae.

2 Author of Hortus Malabaricus :

- (a) Roxburgh. (b) Robert Wight.
(c) Gamble. (d) Henrich van Rheed.

3 One among the following is not a type of ICBN

- (a) Holtype. (b) Ecotype.
(c) Syntype. (d) Paratype.

4 Which among the following family with hypogynous flower :—

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

5 Engler and Prantle's system of classification is a _____ system of classification.

6 Versatile anther is a characteristic feature of the family _____

7 Head quarters of BSI is at _____

8 Plant classification system based on evolution is _____

9 All the filaments of anthers in flower united, it is called :

10 Name a family with reniform anther.

11 Common name of *Psophocarpus tetragonolobus*.

12 Binomial of Ragi.

(12 x $\frac{1}{4}$ = 3 weigh,

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

13 Write the ethnobotanic significance of *Trichopus zeylanicus*.

14 Name the family and morphology of useful part in *Asafoetida*.

15 Binomial and uses of Pyrethrum.

16 Cytotaxonomy.

17 Monographs.

18 Holotype.

19 Contribution of J.S. Gamble.

20 Monadelphous stamens.

21 Botanic gardens.

(9 x 1 = 9 weightage)

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

22 Explain herbarium preparation.

23 Describe typification.

24 Floral characters of *Lamiaceae*.

25 What are taxonomic keys, explain its uses and applications.

26 Give the binomial of the following :—

(a) Cluster bean.

(b) Guava.

(c) Mangosteen.

(c) Potato.

27 Medicinal properties of the following :—

(a) Adhatoda.

(c) Eclipta.

(c) Aloe.

(d) Long Peppe'n

28 Name any *eight* major tribes of South India.

(5 x 2 = 10 weightage)

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

29 Give an account of Bentham and Hookers system of Plant Classification.

30 *Asteraceae* is an advanced family, give details to support this statement.

31 Explain the modern trends in taxonomy.

(2 x 4 = 8 weightage)