

**Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore-641043
Bachelor's Degree Examination – November 2017**

III Semester

**Class : II UG
Major : Botany**

**Time : 3 Hrs
Max.Marks : 100**

15BBOC08 Taxonomy and Economic Botany

Part – A

10x1=10

Choose the correct answer

1. Genera plantarum was written by
a. Lamark
b. Baulin
c. De Candolle
d. Bentham and Hooker
2. Phylogenetic system of classification was proposed by -----
a. Engler and Prantle
b. Bentham and Hooker
c. Aristotle
d. Carolus Linnaeus
3. Herbarium of Indian Botanical Garden is located at -----
a. Madras
b. Calcutta
c. Dehradun
d. Lucknow
4. The binomial system of plant classification was introduced by -----
a. Lamar
b. Linnaeus
c. Bentham and Hooker
d. Aristotle
5. The presence of winged petioles are the characteristic feature of the family
a. Leguminaceae
b. Malvaceae
c. Rubaceae
d. Apiaceae
6. The nature of the fruit in Apiaceae
a. Pericarp
b. Endocarp
c. Meocarp
d. Cremocarp
7. The inflorescence Cyathium is found in the family
a. Euphorbiaceae
b. Rubiaceae
c. Liliaceae
d. Poaceae
8. The presence of Spur in the Perianth is the characteristic feature of the family
a. Orchidaceae
b. Rubiaceae
c. Liliaceae
d. Poaceae
9. The Botanical Name of the sugar plant is -----
a. *Saccharum officinalae*
b. *Rauvolfia serpentina*
c. *Melia dubia*
d. *Oryza sativa*
10. Medicinal use of *Vinca rosea* is -----
a. Anti-cancer
b. Anti-diabetic
c. Liver disorder
d. Snake bite

Part – B

5x6=30

Answer the following

Answer should not exceed 400 words or two pages

11. a. Briefly describe the aims and objectives of Taxonomy.
(or)
11. b. Write a note on merits & demerits of Bentham and Hooker classification.
12. a. What is meant by effective and valid publication?
(or)
12. b. Explain the principles of international code of Botanical Nomenclature.
13. a. Describe the economic uses of Malvaceae with suitable examples.
(or)
13. b. Comment upon the corolla of Leguminosae.
14. a. Describe the Androecium and Gynoecium of Asclepiadaceae.
(or)
14. b. Write the economic importance of Poaceae.
15. a. Give a short notes on Cereals that you have studied.
(or)
15. b. Write the medicinal importance of Phyllanthus.

Part – C

5x12=60

Answer the following

Answer should not exceed 800 words or 4 pages

16. a. Give a detailed account of the Phylogenetic classification by Engler and Prantl.
(or)
16. b. Describe the modern system of classification proposed by Thakhtajan.
17. a. Write an essay on Herbarium Techniques and its uses .
(or)
17. b. Give a brief account on modern trends in Taxonomy.
18. a. Briefly explain the family Annonaceae write a note on its primitive characters.
(or)
18. b. Describe Capparidaceae with neat sketches.
19. a. Describe the Floral features of Eupobiaceae.
(or)
19. b. Give an account on the salient features of Liliaceae.
20. a. Explain the economic importance of the following
(i) *Oryza sativa* (ii) *Saccharum officinale*
(or)
20. b. Briefly explain the medicinal importance of *Vinca rosea* and *Rauvolfia*.