

BACHELOR OF SCIENCE (CBCS-2018 COURSE)
S. Y. B. Sc. Sem-III : WINTER :- 2021
SUBJECT: BOTANY : ANGIOSPERM TAXONOMY

Day : Wednesday
Date 2/2/2022

W-18354-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Draw neat and labelled diagrams **WHEREVER** necessary.
 - 3) Figures to the right indicate **FULL** marks.
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Q.1 Answer **ANY TWO** of the following: **(12)**

- a) Explain concept of plant systematics.
- b) Give merits and demerits of Bentham and Hooker's system of classification.
- c) Describe distinguishing characters and economic importance of family Asteraceae.

Q.2 Attempt **ANY TWO** of the following: **(12)**

- a) Give salient features of ICBN.
- b) Explain concept of species in Botanical nomenclature.
- c) Assign the family and give medicinal uses of following plants :
i) *Adhathoda vesica* ii) *Azadirachta indica*

Q.3 Attempt **ANY TWO** of the following: **(12)**

- a) Describe phylogenetic system of classification.
- b) Give outline of Engler and Prantle's system of classification.
- c) Explain natural system of classification.

Q.4 Attempt **ANY THREE** of the following: **(12)**

- a) Give economic importance of family Annonaceae.
- b) Write the floral formula of Apiaceae and Amaryllidaceae.
- c) Give economic importance of family Brassicaceae.
- d) Explain objectives of plant systematics.

Q.5 Attempt **ANY FOUR** of the following: **(12)**

- a) Give the concept of binomial nomenclature.
- b) Explain habit and habitat of family Euphorbiaceae.
- c) Give floral formula and floral diagram of family Solanaceae.
- d) Give salient features of Engler and Prantle's system of classification.
- e) Give concept of taxonomic ranks in Botanical nomenclature.
- f) Describe merits of Englers and Prantle's system of classification.

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