

S.Y.B.SC. SEM – III (CBCS - 2016 COURSE) : SUMMER - 2018
SUBJECT : BOTANY- PLANT SYSTEMATICS AND PLANT ECOLOGY

Day : Friday
Date : 27/04/2018

S-2018-0655

Time : 03.00 PM TO 06.00 PM
Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
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Q.1 Attempt any **TWO** of the following: (12)

- a) Give salient features of *ICBN*.
- b) Explain Bentham and Hooker's system of classification.
- c) Give merits and demerits of Engler and Prantle's system of classification.

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

- a) Give distinguishing characters of family Brassicaceae and Apiaceae.
- b) Describe biotic components in an ecosystem.
- c) Describe energy flow in an ecosystem.

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

- a) Explain cycling of nitrogen in an ecosystem.
- b) Give botanical names and economic importance of family Solanaceae and Asteraceae.
- c) Give the concept of binomial nomenclature.

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

- a) Describe species diversity.
- b) Enlist major types of ecosystem.
- c) Explain abiotic components in an ecosystem.
- d) Give economic importance of family Meliaceae and Amaryllidaceae.

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

- a) Give floral formula and floral diagram of family Annonaceae.
- b) Give merits of Bentham and Hooker's system of classification.
- c) Give importance of plant systematics.
- d) Give the processes within an ecosystems.
- e) Give importance of phosphorus cycle.
- f) Give distinguishing characters of family Euphorbiaceae.

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