

S.Y.B.SC. SEM – III (2014 COURSE) : SUMMER - 2018

SUBJECT :BOTANY : PLANT SYSTEMATICS & PLANT ECOLOGY

Day : **Tuesday**
Date : **24/04/2018**

S-2018-0712

Time : **12.00 NOON TO 02.00 PM**
Max. Marks : 40

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: **(10)**

- a) Describe natural system of classification.
- b) Explain biotic components of an ecosystem.
- c) Give objectives and importance of plant systematics.

Q.2 Attempt **ANY TWO** of the following: **(10)**

- a) Describe Bentham and Hooker's system of classification of plant.
- b) Explain cycling of carbon in an ecosystem.
- c) Give an outline of Engler and Prantle's system of plant classification.

Q.3 Attempt **ANY TWO** of the following: **(10)**

- a) What is "binomial nomenclature" and explain its concept.
- b) Give diagnostic characters and floral formula of family Caesalpinaceae and Euphorbiaceae.
- c) Assign the family and give medicinal uses of following plants:
i) *Adathoda vasica* ii) *Azadirachata indica*

Q.4 Attempt **ANY FIVE** of the following: **(10)**

- a) Give floral formula and floral diagram of family Amaryllidaceae.
- b) Describe type of fruit in family Annonaceae.
- c) Give major types of ecosystem.
- d) Explain salient features of *ICBN*.
- e) Give distinguishing characters of family Brassicaceae.
- f) Give salient features of family Asteraceae.
- g) What is artificial system of classification and give its examples.

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