

S.Y.B.SC. SEM – III (2014 COURSE) :WINTER - 2017

SUBJECT: BOTANY: PLANT SYSTEMATICS & PLANT ECOLOGY (B -31)

Day: Monday
Date: 06/11/2017

W-2017-0620

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) Give an outline of Engler and Prantle's system of classification.
- b) What is biogeochemical cycle? Describe phosphorus cycle.
- c) Give an account of concept of species in angiosperms.

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

- a) Describe flow of energy in an ecosystem with suitable diagram.
- b) Explain phylogenetic system of classification.
- c) Give distinguishing characters of family Solanaceae and Acanthaceae.

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

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

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

- a) Give diagnostic characters of family Asteraceae.
- b) Explain siliqua type of fruit.
- c) Give medicinal importance of family Meliaceae.
- d) Enlist the abiotic components of an ecosystem.
- e) What is apomixis?
- f) Give types of pollination with suitable examples.
- g) Give economic importance of family Amaryllidaceae.

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