

**S.Y.B.SC. SEM – III (2014 Course) : WINTER - 2018**  
**SUBJECT: BOTANY: PLANT SYSTEMATICS & PLANT ECOLOGY (B-31)**

Day: Monday  
Date: 22/10/2018

**W-2018-0805**

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

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**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 salient features of Bentham and Hooker's system of classification.
- b) Describe natural system of classification.
- c) Give concept of binomial nomenclature.

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

- a) Give salient features of *ICBN*.
- b) Assign the family of following plants and give their medical uses.
  - i) *Azadirachta indica*
  - ii) *Adathoda vasica*
- c) Explain in brief energy flow model in an ecosystem.

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

- a) Give diagnostic character of family Annonaceae and Euphorbiaceae with suitable examples.
- b) What is biogeochemical cycle? Describe carbon cycle.
- c) Describe biotic components of an ecosystem.

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

- a) Give economic importance of family Asteraceae.
- b) Explain siliqua type of fruit
- c) Give merits of Engler and Prantle's system of classification
- d) Give floral formula and floral diagram of family *Caesalpinaceae*.
- e) Enlist the abiotic components of an ecosystem.
- f) Give importance of plant systematics.
- g) Give diagnostic characters of the family Apiaceae.

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