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**End Semester Examination of Semester-II, 2016**

**Subject : BOTANY (PG)**

**Paper : BOTPG-203**

**(Plant Taxonomy)**

**Full Marks : 40**

**Time : 2 Hrs**

*The figures in the margin indicate the marks corresponding to the question.*

*Candidates are requested to give their answers in their own word as far as practicable.*

*Illustrate the answers wherever necessary.*

**Answer all the questions**

1. Answer any seven of the following : 2x7=14
- a) Define  $\alpha$ -taxonomy and  $\beta$ -taxonomy.
  - b) Write the full forms of ICBN and ICN.
  - c) What is catalogue? Cite an example.
  - d) What are Bio-codes? Write the names of them.
  - e) What is Index Kewensis?
  - f) Differentiate anagenesis and Cladogenesis.
  - g) What is nothotaxon?
  - h) Write the full form of IUCN and WWF.

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- i) Distinguish phenetics from cladistic.
- j) What is protologue?
- k) Define heterobathmy. Cite an example.
- l) What is NPC system of Classification?

2. Write short notes on any two of the following:  $5 \times 2 = 10$

- a) Importance of herbaria;
- b) Evolutionary features of Asteridae;
- c) Biosystematic Categories.
- d) Addition, alternation and changes of latest code.

3. Answer any two of the following:  $8 \times 2 = 16$

- a) Mention the primitive features of the subclasses of Magnoliidae and Alismatidae.  $4+4$
  - b) What is NPC System of classification? Write the importance of palynological characters used in taxonomic study.  $2+6$
  - c) Define biodiversity. Mention the different types of biodiversity. Mention the causes of the loss of biodiversity.  $1+3+4$
  - d) Give an outline of APG III (2009).  $8$
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