

(b) Give the botanical names of :

- (i) Rubber.
- (ii) Coffee.
- (iii) Tobacco.
- (iv) Teak.
- (v) Coriander.
- (vi) Potato.
- (vii) Ground nut.
- (viii) Pepper.
- (ix) Ginger.
- (x) Sunflower.

14. (a) Explain the concepts of evolution.

(OR)

(b) Discuss different types of speciations.

Register Number :

Name of the Candidate :

**1 7 0 7**

**M.Sc. DEGREE EXAMINATION, 2008**

( BOTANY )

( SECOND YEAR )

( PAPER - IX )

**610. TAXONOMY OF ANGIOSPERMS,  
ECONOMIC BOTANY AND  
EVOLUTIONARY BIOLOGY**

*( New Regulations )*

*( Including Lateral Entry )*

May ]

[ Time : 3 Hours

Maximum : 100 Marks

*Answer sections A, B and C.*

*Draw diagrams wherever necessary.*

**SECTION – A** (8 × 3 = 24)

*Answer ALL questions.*

*Each answer should not exceed 50 words.*

*All questions carry equal marks.*

**Turn over**

*Explain the following :*

1. Para type.
2. Binomial system of nomenclature.
3. Typification.
4. Nomen nudum.
5. Floral formula of Apocynaceae.
6. Sympatric speciation.
7. Genetic variation.
8. Phenoplasticity.

**SECTION – B** (6 × 6 = 36)

*Answer ALL questions.*

*Each answer should not exceed 300 words.*

*All questions carry equal marks.*

9. (a) Write short notes on Taxonomic ranks.

(OR)

- (b) Briefly write on Biosystematics.

10. (a) Evaluate effective and valid publication.

(OR)

- (b) What are the methods involved in the Floristic study ?

11. (a) Explain Apiaceae with field identification, description and its importance.

(OR)

- (b) Give an account of systematics and phylogeny of Asteraceae.

12. (a) Discuss the merits and demerits of Bentham and Hooker's classification.

(OR)

- (b) How the cytological characters are helpful in solving taxonomical problems ?

13. (a) Give an account on the genetic resources and their importance.

(OR)

**Turn over**

**SECTION – C** (2 × 20 = 40)

*Answer ALL questions.*

*All questions carry equal marks.*

15. (a) Describe the salient features and inter relationships of :
- (i) Acanthaceae.
  - (ii) Verbenaceae.
  - (iii) Lamiaceae.

(OR)

- (b) Write a detailed account on Numerical taxonomy.

16. (a) Write on the economic importance of pulses.

(OR)

- (b) Write an essay on the aspects of prebiotic environment and molecular evolution.

**SECTION – C** (2 × 20 = 40)

*Answer ALL questions.*

*All questions carry equal marks.*

15. (a) Describe the salient features and inter relationships of :
- (i) Acanthaceae.
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