BOT – 106

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM

II year B.Sc., Program Examinations at III Semester End

Botany Paper – 3: Plant Taxonomy and Embryology (TM & EM)

Model Question Paper (w.e.f. 2018-19)

Time: 3 Hrs. **Max. Marks: 50**

Section –A **4 x 5 = 20 M**

Answer any Four of the following questions. Draw diagrams wherever necessary.

1. ICBN
2. Merits and demerits of Hutchinson system of classification
3. Economic importance of Brassicaceae
4. Essential floral organs in Cucurbitaceae
5. Inflorescence in Poaceae
6. Economic importance of Asteraceae
7. Ovule structure
8. Adoxa type of embryo sac

Section – B **3 x 10 = 30 M**

Answer any Three of the following questions. Draw neat and labeled diagrams wherever necessary.

9. Discuss the role of herbarium as an important taxonomic resource.
10. Write an essay on Bentham and Hooker's system of classification.
11. Describe the distinguishing characters of the family Cucurbitaceae and mention its economic importance.
12. Describe the chief characters of the family Asteraceae and add a note on its economic importance.
13. Write an essay on the development of Dicot embryo.

BOT -106

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM

II B.Sc., Botany Practical Examinations at the end of III Semester

(Plant Taxonomy and Embryology)

Botany Practical Paper - III model (w.e.f. 2018-19)

Time: 2 hours **Max.Marks: 50**

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1. Describe the given specimen '**A**' (Polypetalae plant) in technical terms, draw the labeled diagram of twig, L.S. of flower and floral diagram. **10 M**

   Scheme of valuation : Vegetative characters – 2 marks+ Floral characters-3 marks+ Floral formula -1mark + Systematic position -1 mark + Diagrams- 3 marks (Twig -1+ L.S. of flower -1 + Floral diagram -1).

2. Describe the given specimen '**A**' (Gamopetalae/Monochlamydae/Monocot plant) in technical terms, draw the labeled diagram of twig, L.S. of flower and floral diagram. **10 M**

   Scheme of valuation : Vegetative characters – 2 marks+ Floral characters-3 marks+ Floral formula -1mark + Systematic position -1 mark + Diagrams- 3 marks (Twig -1+ L.S. of flower -1 + Floral diagram -1).

3. Pollen viability test **8 M**
4. Scientific observation of the given specimens 2 x 5 =**10 M**

   D. Embryology slide

   E. Embryology slide

   Scheme of valuation : Identification – 1 M + Reasons – 3 M + Diagram – 2M

5. Record + Herbarium and Field note book +Viva voce 5+4+ 3 = **12 M**