**MAHATMA GANDHI UNIVERSITY**

**B.Sc. DEGREE (CBCSS) BOTANY PROGRAMME**

**Semester VI -5&6(Combined) Practical**

**ANGIOSPERM MORPHOLOGY, SYSTEMATIC BOTANY AND ECONOMIC BOTANY**

**&**

**GENETICS, PLANT BREEDING AND HORTICULTURE**

**Questions**

**Time 3 hours Marks 40**

1. Identify the specimens **A**  to the respective family giving key characters at each steps (5)

 (Identification - 1; Characters up to series – 1 Family character- 3)

1. Describe the flower **B** in technical terms. Draw the VS, Construct the floral diagram and write the floral formula. (2)

(Description - ½; VS - ½; Floral Diagram - ½; floral formula - ½)

1. Identify the inflorescence and fruit of **C**&**D.**  (1 x 2 = 2)
2. Identify the herbarium specimens **E1** & **E2** by their binomial and family.

 (Binomial - ½; Family ½) (1 x 2 = 2)

1. Identify the product/part by binomial, family & morphology of the

useful part of **F** and **G** (1 x2= 2 )

1. Submit 25 herbarium and a duly certified field book. (2)
2. Write the binomial and ethno botanical use of the material **H** (1)
3. Work out the problem **I** (5)
4. Match the karyotype with the phenotype in **J** and identify the genetic disorder and make comments on the karyotype and phenotype. (3)
5. Conduct emasculation/budding/grafting/layering on material **K** and draw a diagram and label it (4)

11. Identify the garden design/garden implement L and comment on it (2)

 12**.** Viva voce (based on the practical (2)

1. Record (8)