

**Bago University**  
**Department of Botany**  
**Second Semester Examination, September, 2019**

**Second Year (B.Sc.)**  
**Botany Specialization**  
**Answer All Questions**

**Bot.2107**  
**Angiosperms II**  
**Time allowed: (3) Hours**

**I. Determine whether each statement is TRUE or FALSE.**

**(10 marks)**

1. In *Euphorbia sp*, each female flower is a single stalked stamen.
2. The seed oil of siyo-kyetsu is used for manufacturing candles, soaps and lubricant.
3. Hti-ka-yon plant is spreading undershrubs.
4. In Casuarinaceae, the flowers are unisexual and the perianth is absent.
5. The anther are longitudinal or poricidal in dehiscence in Malvaceae.
6. The flowers are very minute and arrange in hollow fascicles in Amaranthaceae.
7. The type of petiole found in the Rubiaceae is interpetiolar.
8. In Bignoniaceae winged seeds are dispersed by wind.
9. The flowers of Tectona are gamosepalous and strongly zygomorphic.
10. The fruits of Khan-yan are used as stimulant.

**II. Write correct word to complete the following sentences.**

**(10 marks)**

1. Sepals are four or five fuse into a cup-like structure in family -----.
2. In *Euphorbia*, the inflorescence is peculiar known as -----.
3. The unripe fruits are rich source of ----- acids in Ma-gyi.
4. In Brassicaceae the fruits is either siliqua or -----.
5. Pan-mon-la is cultivate in northern Myanmar for its edible -----.
6. In Rutaceae, the leaves are dotted with glands contain ----- oils.
7. Orange oil is extracted from the fruit ----- in Than-baya-thi.
8. The stipules may be inter or intrapetiolar in ----- spp.
9. The leaves of Zi-ya-ywet are used for ----- food products.
10. In Asteraceae the hair like structure called the -----.

**III. Answer all questions.**

**(10 marks)**

1. Give the scientific name and uses of Kanakho.
2. Summarize the morphology of the tendrils in Cucurbitaceae.
3. What are the economic uses of coffee?
4. Outline the inflorescence of the family Bignoniaceae.
5. Describe the disc floret and ray floret of family Asteraceae.

**IV. Answer all questions.**

**(20 marks)**

1. What are the economic uses of Mye-pe?
2. Give the scientific name and uses of Magyi.
3. Briefly explain the reproductive parts of Amaranthaceae.
4. Draw and label the L.S of flower and T.S of ovary in Rubiaceae.

**V. Answer any three questions.**

**(30 marks)**

1. Write detailed account on taxonomic descriptions of family Vitaceae.
2. Clarify different types of flower in Caricaceae.
3. Describe the family Malvaceae with suitable diagrams.
4. Discuss taxonomic description of Verbenaceae.
5. Explain the flower parts of family Solanaceae with suitable diagram.