

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

**First Year (B.Sc.)**  
**Zoology Specialization**  
**Answer All Questions**

**Bot.1002**  
**Importance of Plants**  
**Time allowed: (3) Hours**

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

**(10 marks)**

1. Cereals are the member of the family Graminae.
2. Wheat flakes is a popular form of cereal food.
3. The female flowers of Maize are borne in tassel at the upper end.
4. The seeds of black gram are rich in phosphoric acid.
5. The tubers of sweet potatoes are modified stem.
6. The small segments of garlic are called clove.
7. Oleoresin-zingerone, which gives the sharp, sour taste.
8. The chief colouring matter of capsicum is carotenoid capsanthin.
9. Bunches of banana consist of 6-15 clusters, known as fingers.
10. Morphine is extracted from opium poppy.

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

**(10 marks)**

1. The protein in groundnut is used in manufacture of -----.
2. Digitalis is obtained from the leaves of ----- plant.
3. Higher the value of crop produced, higher will be the ----- earned.
4. The moist ocean wind may no longer be able to pass across the -----.
5. The roots of small plants are entirely in -----.
6. Saprophytic bacteria and fungi carried out the ----- process.
7. At the north and south poles, there is almost no -----.
8. Suitable environment for aquatic plants are -----.
9. Acid rain damages plants directly by ----- their leaves.
10. Reforestation programs are vital to the health of the -----.

**III. Answer all questions.**

**(10 marks)**

1. Write the constituents of legumes.
2. Why potato is highly nutritious food?
3. Classify fibres according to their occurrence.
4. Name the mineral elements essential to plants.
5. Give the effect of acid rain on the environment.

**IV. Answer all questions.**

**(20 marks)**

1. Give a concise account on ginger.
2. Write short note on hemp fiber.
3. Describe the aquatic biomes.
4. How do you understand action for conservation of forest?

**V. Answer any three questions.**

**(30 marks)**

1. Write full account on *Solanum tuberosum*.
2. Describe characteristics of Rutaceae and some popular citrus fruits.
3. Explain one of the most valuable timbers yielding plant in Myanmar.
4. How does the sun effect our seasons and climate?
5. Explain about the forests provide us with many essential products.