

**P P SAVANI UNIVERSITY**

First Semester of B.Sc. (Hons.) Agriculture End Semester Examination

June - 2022

**SGAG1110- Introductory Botany**

23.07.2022, Saturday

Time: 10:00 a.m. to 12:00 p.m.

Maximum Marks: 50

**Instruction:**

1. Draw a neat and labeled diagram whenever it is required.
2. Start new questions from new page.

**Q.1 Multiple choice questions (01 mark each)**

**(15)**

**1.1** Which of the following conduct water and minerals in plant system?

- |           |                 |
|-----------|-----------------|
| a. Xylem  | c. Both a and b |
| b. Pholem | d. None         |

**1.2** Which of the following is a type of special tissue ?

- |           |             |
|-----------|-------------|
| a. Xylem  | c. Meristem |
| b. Pholem | d. None     |

**1.3** Which of the following is a underground part of the plant ?

- |           |          |
|-----------|----------|
| a. Stem   | c. Ovary |
| b. Flower | d. Root  |

**1.4** Which of following is not conducted by phloem?

- |          |                 |
|----------|-----------------|
| a. Water | c. Carbohydrate |
| b. Food  | d. All of these |

**1.5** Which of the following involved fusion of male and female gametes ?

- |                        |                         |
|------------------------|-------------------------|
| a. Cloning             | c. Asexual reproduction |
| b. Sexual reproduction | d. None                 |

**1.6** Which of the following is a father of taxonomy ?

- |                     |            |
|---------------------|------------|
| a. Carlous Linneaus | c. Maxwell |
| b. Wu               | d. Xu Han  |

**1.7** Which of the following is related with baby plant ?

- |              |           |
|--------------|-----------|
| a. Endosperm | c. Embryo |
| b. Seed coat | d. None   |

**1.8** Which of the following is reproductive part of the plant ?

- |         |           |
|---------|-----------|
| a. Leaf | c. Flower |
| b. Stem | d. Root   |

**1.9** Which of the following involve xylem?

- |                      |                     |
|----------------------|---------------------|
| a. Epidermal tissues | c. Vascular tissues |
| b. Ground tissues    | d. None             |



**1.10** Which of the following have viviparous germination ?

- a. Rice
- b. Maize
- c. Wheat
- d. Mangrove

**1.11** Which of the following have epigeal germination?

- a. Maize
- b. Sorghum
- c. Green gram
- d. All of these

**1.12** Which of the following contain DNA ?

- a. Nucleus
- b. Plasma membrane
- c. Chromosome
- d. A and c both

**1.13** Which of the following is a mature ovule ?

- a. Seed
- b. Flower
- c. Stem
- d. All of these

**1.14** Which of the following is female reproductive part of flower ?

- a. Ovule
- b. Style
- c. Stigma
- d. All of these

**1.15** Cotyledon comes out of the ground after germination called as \_\_\_\_\_

- a. Inner germination
- b. Epigeal germination
- c. Hypogeal germination
- d. All of these

**Q.2 Define/ Explain (Attempt any six- 01 marks each)**

**(06)**

- 2.1 Plant
- 2.2 Flower
- 2.3 Bud
- 2.4 Root
- 2.5 Xylem
- 2.6 Seed
- 2.7 Taxonomy
- 2.8 Genus

**Q.3 True/False (01 mark each)**

**(05)**

- 3.1 Root is underground part of the plant.
- 3.2 Flower is reproductive organ of plant.
- 3.3 Xylem conduct food and minerals.
- 3.4 Chromosome contains DNA in cell.
- 3.5 Leaf is a type of un-special tissue of the plant.





**Q.4 Short notes (Attempt any six- 02 marks each)**

**(12)**

- 4.1 Characteristics of plant
- 4.2 Difference between prokaryotic and eukaryotic cell
- 4.3 Parts of flowering plant
- 4.4 Classification of plant based on life cycle
- 4.5 Weak form of plants
- 4.6 Aims of taxonomy
- 4.7 Draw the plant cell
- 4.8 Vascular tissues

**Q.5 Answer the following questions in detail (Attempt any three- 04 marks each)**

**(12)**

- 5.1 Explain plant tissue system in detail with diagram
- 5.2 Seed germination in detail with appropriate diagram
- 5.3 Classify the plants based on it's family (Minimum four families with example)
- 5.4 Taxonomy it's objective and importance in detail
- 5.5 Explain plant in detail

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