

Name: _____ Grade: _____ Date: _____

UNIT TEST

CLASSIFICATION OF PLANTS

INSTRUCTIONS: Choose the letter that best answers the questions below.

1. Which statement is true about self-pollination?
 - a. Fusion of pollen grains from a flower with the ovum of a different flower on another plant
 - b. Fusion of pollen grains from a flower with the ovum of the same flower on the same plant
 - c. Transfer of pollen grains from the anthers of a flower to the stigma of a different flower on another plant
 - d. Transfer of pollen grains from the anthers of a flower to the stigma of the same flower on the same plant

2. Which statement is true about insect pollinated plants?
 - a. They have feathery stigmas
 - b. They have conspicuous petals
 - c. They have long protruding stigmas
 - d. They have stamens hanging outside the flower

3. Which structure is the male reproductive part of the plant?
 - a. Petal
 - b. Pistil
 - c. Sepal
 - d. Stamen

4. The carpal of a flower consists of:
 - a. Anthers and filaments
 - b. Stigma, style, and ovary
 - c. Anthers, stigma, and style
 - d. Petals, sepals and stamen

5. Which is the first to develop?
 - a. Leaves
 - b. Plumule
 - c. Radicle
 - d. Root hairs

6. Which process requires optimum conditions for growth of seeds and spore?
 - a. Gestation
 - b. Germination
 - c. Fertilization
 - d. Photosynthesis

7. Which group is classified as simple plants?
 - a. Algae
 - b. Bacteria
 - c. Ferns
 - d. Mosses

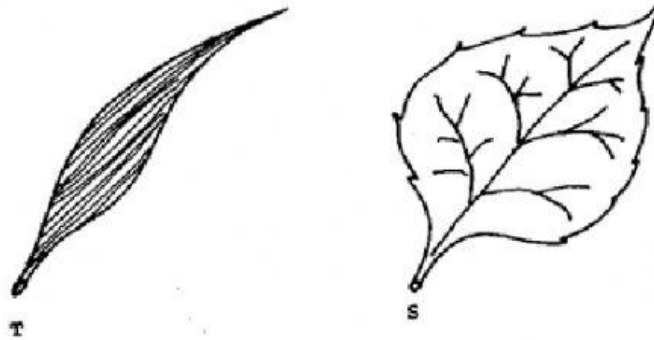
8. Which gas is produced as a by-product of photosynthesis?
 - a. Carbon dioxide
 - b. Oxygen
 - c. Nitrogen
 - d. Water vapor

9. Why do flowering plants need light?
 - a. To absorb water
 - b. To produce starch
 - c. To help pollinate flowers
 - d. To reduce water loss

10. What is the major function of leaves?
 - a. Absorption
 - b. Fertilization
 - c. Starch production
 - d. Protection

INSTRUCTIONS: Answer ALL parts of the short answer.

11. Study the two leaves before answering the parts (i) - (ii)



a. Which leaf is from a monocotyledon plant? (1)

b. What are two differences between the leaves of monocotyledons and dicotyledons? (2)

c. What is one difference between the seeds of monocotyledons and dicotyledons? (1)

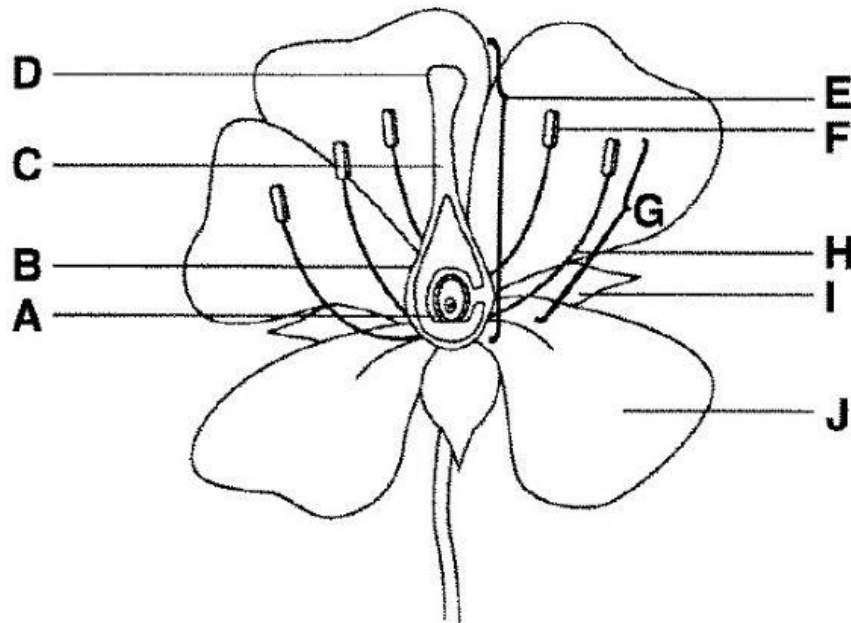
d. List two examples of monocotyledons and dicotyledons (4)

Monocotyledon _____ and _____

Dicotyledon _____ and _____

e. What is the main function of the leaf? (2)

12. **INSTRUCTIONS:** Answer ALL parts of the short answer.



a. Label the following parts of the flower A-J (5)

- A _____
- B _____
- C _____
- D _____
- E _____
- F _____
- G _____
- H _____
- I _____
- J _____

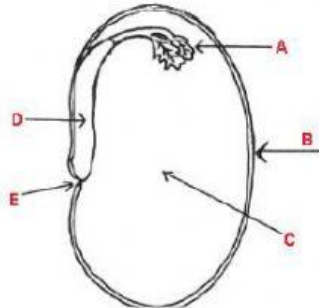
b. What is the difference between pollination and fertilization? (2)

c. Some flowers are not brightly colored at all, but have a very pungent odor that smells like rotting meat. How do you think these flowers are pollinated? (1)

d. Why are flowers brightly colored? (1)

e. What is one difference between wind pollinated plants and insect pollinated plants? (1)

13. **INSTRUCTIONS:** Answer ALL parts of the question



a. Label the part A-D (4)

A _____

B _____

C _____

D _____

b. Provide the letter of the structure that would be responsible for photosynthesis. (1)

c. Define germination. (2)

d. Provide THREE conditions necessary for germination. (3)

TOTAL MARKS: _____ / 40