

ANSWER ALL QUESTIONS

Time allowed: 15 minutes

1. State whether the following statements are TRUE or FALSE

- a. Example of hypogeal germination can be seen in *Arachis hypogea*. ... false X
- b. There are no lateral roots in the adventitious root system. ... false ✓
- c. The angle between a leaf and the stem on which it is borne is called the axil. ... true ✓
- d. The leaflets of paripinnate leaf are attached to the rachis. ... true ✓
- e. When the petiole is lacking the leaf is said to be sessile. ... true ✓
- f. In biennials the shoot only last for two years. ... true ✓
- g. Perennials usually produce flowers each year. ... true ✓
- h. Epiphytes only grow aboveground on other plants. ... true ✓
- i. Hydrophytes are plants that grow in water-logged soil. ... true ✓
- j. Xerophytes, like cactus can only grow well in arid habitats. ... true X
- k. Geophytes are annual plants with underground organs. ... true X
- l. Morphology is the study of external shape and features of cells. ... true X
- m. Unlike angiosperms, gymnosperms lack vessels. ... true ✓
- n. Gymnosperms are seedless plants. ... false ✓
- o. Angiosperms and gymnosperms are the only groups of seed plants. ... false X
- p. Spermatophytes always have their seeds enclosed. ... false ✓
- q. The monocotyledonous embryo bears only one plumule. ... true ✓
- r. In monocots embryo the coleorhiza protects the radicle. ... true ✓
- s. In hypogeal germination it is the epicotyl that elongates. ... true ✓
- t. Hypogeal germination takes place in both monocots and dicots. ... true ✓
- u. Stipules borne on the stem free from the leaf itself are exstipulate leaves. ... false ✓
- v. An example of palmate compound leaf is *Carica papaya*. ... false ✓
- w. Leaflets do not have a stalk or petiole. ... false ✓
- x. The small stipule present at the base of a leaflet is known as stipe. ... true ✓
- y. The blade is the part of the leaf that collects sunlight for photosynthesis. ... true ✓
- z. Leaflets that are odd in number are referred to as imparipinnate. ... true ✓
- aa. The root system is part of the plant body that has nodes but bears no leaves. ... false ✓
- bb. A leaf is bipinnate when two leaflets are attached to the petiole. ... false ✓

NDEZURE EMMANUEL