

(作答時不必抄題，但須標明題號)

一、翻譯下列專有名詞並解釋。(每個名詞 3 分，計 45 分)

1. **Antitranspirant**: Substances that slow or stop the evaporative loss of water from plants.
2. **Apomixes**: Seed (embryo) formation without sexual union of gametes. This occurs in Kentucky bluegrass and citrus.
3. **Dichogamy**: The condition when stamens shed pollen at a time that the stigma is not receptive.
4. **Double working**: A grafting procedure where an interstem is grafted between an understock and scion usually to overcome incompatibility or to dwarf the plant.
5. **Filial**: Any generation following the parental. It is designated with the symbol F: The first filial generation is the F₁, the second is F₂, and so on.
6. **Foliar feeding**: The act of applying liquid forms of water-soluble fertilizers to leaves.
7. **Hardening off**: The process of preparing plants for the harsh environmental conditions following transplanting. This generally involves reducing watering, fertilization, and temperatures.
8. **Heeling in**: The act of covering the roots of plants with soil, sawdust, or mulch for the purpose of temporary storage.
9. **Hydroseeding**: The process of sowing seeds with a mixture of water, fertilizer, and mulch. Hydroseeding is accomplished with specialized equipment.
10. **Incompatibility**: A biochemical hindrance to sexual union of gametes between plants with a common sterility gene, among members of a clone, or within a single plant.
11. **Integrated pest management**: A system in which people utilize a range of strategies to control pests while considering the consequences of their actions.
12. **Layerage**: An asexual propagation technique in which shoots are induced to root while they remain attached to the mother plant.
13. **Liners**: Young plant material that is of adequate size to plant in a nursery.
14. **Rouging**: The removal of unwanted plants because they are diseased or not true to type.
15. **Soilless medium**: A medium for growing plants that does not contain any mineral soil. Many soilless media contain sphagnum peat or bark and an inert ingredient such as sand, perlite, or vermiculite.

二、比較下列每題中各專有名詞之不同。(每詞 1 分，計 15 分)

1. anthesis – bolting – rosette
2. bulbil – bulblet
3. hardwood cutting – semihardwood cutting – softwood cutting
4. hypocotyl – hypogeous – hypogynous
5. offshoot – watersprout
6. scarification – stratification

三、請列舉園藝植物所需礦物營養中的巨量元素(Macronutrients)種類 5 種，並分別寫出這 5 種元素的：

(1)主要吸收型態 1 種，(2)常用肥料 1 種，(3)營養缺乏症先出現在老葉或新葉？(20 分)

四、請依下列園藝植物分類，每一類寫出兩種台灣平地常見之種類(僅寫中文名即可)。(20 分)

(1)常綠果樹，(2)落葉果樹，(3)葉用蔬菜，(4)非葉用蔬菜，(5)觀花喬木，(6)觀花灌木，(7)藤蔓植物，(8)草本花卉，(9)觀葉植物，(10)地被植物。

試題隨卷繳回