

(作答時不必抄題，但須標明題號)

一、解釋下列與作物栽培環境有關的名詞。(每小題4分，計16分)

1. Etiolation
2. Phototropism
3. Cold acclimation
4. Permanent wilting point

二、解釋下列與植物生殖生理有關的名詞。(每小題4分，計12分)

1. Double fertilization
2. Xenia
3. Transgenic plants

三、解釋下列與植物生長和發育有關的名詞。(每小題4分，計12分)

1. Protocorm-like bodies
2. Epinasty
3. Indeterminate inflorescence

四、何謂頂芽優勢 (Apical dominance)? 該生理現象可能的成因為何? (10分)

五、請寫出下列10種園藝作物分類名詞的中文並各舉兩個園藝作物例子。(15分)

1. Tree fruits.
2. Vegetables.
3. Cut flowers.
4. Pot crops.
5. Foliage plants.
6. Bedding plants.
7. Turfgrasses.
8. Ground covers.
9. Beverage plants.
10. Medicinal plants.

六、請翻譯或說明下列英文論文題目的文義：(每小題4分，計20分)

1. Effect of increasing climatic water deficit on some leaf and stomatal parameters of wild and cultivated almonds (*Amygdalus communis* L.) under Mediterranean conditions.
2. Effect of hot air, UV-C, white light and modified atmosphere treatments on expression of chlorophyll degrading genes in postharvest broccoli (*Brassica oleracea* L.) florets
3. Effect of arbuscular mycorrhizal fungi on growth, mineral nutrition, antioxidant enzymes activity and fruit yield of grapevine (*Vitis* spp.) grown under salinity stress.
4. Effects of explant type, culture media and growth regulators on callus induction and plant regeneration of *Phalaenopsis amabilis* hybrids.
5. Improved plant nitrogen nutrition contributes to higher water use efficiency in tomatoes under alternate partial root-zone irrigation.

七、目前全球人口有明顯往都市移居的趨勢，請問您認為園藝產業在現代都市中有何生產和應用方式？試依(1)居家範圍、(2)公園綠地、(3)文教機構、(4)假日市集和(5)都市郊區等五處各舉例說明1-2項。(15分)

試題隨卷繳回