※注意:作答時,請於答案卷上標明作答之大題及其題號。

一、配合題 (72%)

(一)裸子植物(自第三欄選出特徵適合的科號)

題號	特徴	科名
1	Leaves compound	1. Cycadaceae 蘇鐵科 2. Cupressaceae 柏科 3. Ephedraceae 麻黃科 4. Ginkgoaceae 銀杏科 5. Pinaceae 松科 6. Podocarpaceae 羅漢松科 7. Taxaceae 紅豆杉科 8. Taxodiaceae 杉科
2	Leaves fan-shaped with dichotomous venation	
3	Xylem vessels present	
4	Bract and ovuliferous scale distinct, leaves arranged in spirals or in fascicles	
5	Bract and scale fused, leaves spiraled	
6	Leaves scalelike, opposite or whorled	
7	Seed enclosed or partially enclosed by a fleshy aril	

(二)雙子葉離辮花植物(自第三欄選出特徵適合的科號)

題號	特徵	科名
8	Aquatic, leaves with blade submerged, floating, or emergent. Inflorescences of solitary flowers. Tepals 4-12, often petal-like.	1. Aceraceae 楓樹科 2. Cruciferae 十字花科 3. Caryophyllaceae 石竹科 4. Cucurbitaceae 瓜科 5. Dros eraceae 毛氈苔科 6. Euphorbiaceae 大戟科 7. Fagaceae 稅斗科 8. Lauraceae 樟科 9. Magnoliaceae 未蘭科 10. Malvaceae 彝科 11. Moraceae 桑科 12. Nymphaeaceae 睡蓬 13. Passifloraceae 西番 14. Polygonaceae 蓼科 15. Ranunculaceae 毛莨科 16. Rosaceae 薔薇科 17. Rutaceae 芸香科 18. Salicaceae 楊柳科 19. Vitaceae 葡萄科
9	Trees; stipules present, surrounding the terminal bud. Flowers solitary. Tepals 6 to numerous, distinct. Stamens numerous, distinct; carpels usually numerous, distinct, on an elongate receptacle.	
10	Trees or shrubs, aromatic; anthers opening by 2 or 4 uplifting valves.	
11	Mostly herbs. Perianth differentiated into calyx and corolla. Flower usually with spirally arranged, numerous stamens and carpels.	
12	Usually lianas with leaf-opposed tendrils. Inflorescences terminal, but usually appearing leaf-opposed. Petals sometimes deciduous as a cap. Fruit a berry.	
13	Insectivorous herbs, Leaves usually circinate, the blade sensitive and forming a snap trap or covered with mucilage-secreting hairs.	
14	Herbs or vines; nodes often swollen; often with oxalic acid. Stipules present and connate into an often thin sheath (ocrea) around the stem	
15	Trees, shrubs, herbs often with laticifers Flowers unisexual. Carpels usually 3, connate; ovary superior, usually 3-lobed.	
16	Leaves deciduous. Inflorescences erect to pendent catkins. Flowers unisexual, subtended by a usually hairy bract. Petals lacking. Seeds with basal tuft of hairs.	
17	Flowers often showy, with a hypanthium ranging from flat to cup-shaped or cylindrical. Stamens usually numerous; carpels 1 to many, distinct or connate, sometimes adnate to hypanthium.	
18	Vines, usually with spirally coiled and often branched tendrils, borne laterally at the nodes. Flowers unisexual; ovary half-inferior to inferior, with parietal placentation.	
19	Trees or shrubs. Inflorescences often spicate, a catkin, or headlike cluster. Flowers unisexual; ovary inferior. Fruit a nut, closely associated with a spiny to scaly cupule.	
20	Petals 4, distinct, often forming a cross. Stamens 6, the 2 outer shorter than the 4 inner (tetradynamous). Fruit a silique or silicle.	
21	Stamens numerous, filaments distinct, basally connate into a tube around the gynoecium (monadelphous).	
22	Trees or shrubs, with secretory cavities (pellucid dots) containing aromatic ethereal oils. Ovary superior, usually with axile placentation.	
23	Trees. Leaves opposite, usually with palmate venation. Fruit a winged schizocarp.	

題號:488

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(三)雙子葉合瓣花植物(自第三欄選出特徵適合的科號)

題號	特徵	科名
24	Petals 5, forming a wheel-shaped, bell-shaped, funnel-shaped, or tubular corolla. Ovary superior. Ovules usually numerous in each locule. Fruit usually a berry.	1. Apocynaceae 夾竹桃 科 2. Asteraceae 菊科 3. Boraginaceae 紫草科 4. Lamiaceae 唇形花科 5. Oleaceae 木犀科 6. Primulaceae 樱草科 7. Rubiaceae 茜草科 8. Solanaceae 茄科
25	Petals strongly connate and forming wheel-like, funnel-like, or tubular corolla. Inflorescences usually forming helicoid or scorpioid cymes.	
26	Leaves opposite or whorled; stipules present, interpetiolar. Petals connate; ovary inferior.	
27	Plants with laticifers and sap usually milky. Leaves opposite or whorled. Corolla wheel-shaped or funnel-shaped. Fruits often paired, each ovary usually developing into a fleshy or dry follicle.	
28	Leaves usually opposite. Petals usually 4. Stamens 2; filaments adnate to corolla.	
29	Leaves usually opposite, aromatic. Petals usually 2-lipped. Stamens 4, didynamous to equal. Ovary superior, usually deeply 4-lobed; style terminal to gynobasic.	

(四)單子葉植物(自第三欄選出特徵適合的科號)

題號	特徵	科名
30	Inflorescences forming a spike of numerous small flowers packed onto a fleshy axis (a spadix), which is subtended by a large leaflike to petal-like bract (a spathe)	3. Araceae 天南星科 4. Cyperaceae 莎草科 5. Dioscoreaceae 薯蕷科 6. Iridaceae 萬尾科 7. Liliaceae 百合科 8. Poaceae 禾本科 9. Zingiberaceae 薑科
31	Aquatic or wetland herbs. Perianth differentiated into a calyx and corolla. Sepals 3, petals 3, distinct. Stamens usually 6 to numerous, filaments distinct. Carpels 6 to numerous, distinct.	
32	Herbs usually with bulbs. Tepals 6, distinct, petaloid. Stamens 6; filaments distinct. Ovary superior.	
33	Leaves alternate, 2-ranked. Tepals 6, the outer sometimes differentiated from the inner, petaloid; ovary usually inferior.	
34	Twining vines with thick rhizomes. Fruit usually a triangular and 3-winged, loculicidal capsule.	
35	Stems usually triangular. Leaves 3-ranked. Each flower subtended by a bract (glume). Tepals usually reduced to bristles. Fruit an achene.	
36	Aromatic herbs. Flowers bilateral. Stamen 1, grooved, grasping the style. Two larger staminodes usually form a liplike structure.	

二、解釋名詞(28%)

- 1. Binomial nomenclature (3%)
- 2. Herbarium (3%)
- 3. Palynology (3%)
- 4. Holotype (3%)
- 5. Ecotype (4%)
- 6. Biological species (4%)
- 7. Phenetics (4%)
- 8. Phylogenetic classification (4%)