

本試題是否可以使用計算機: 可使用, 不可使用 (請命題老師勾選)

1. Please describe the following "terms" (30%)
 - a. Chaperone
 - b. Osmosis
 - c. Epigenic
 - d. Gymnosperms
 - e. Post-translational modification
 - f. Post-transcriptional modification
2. Please describe the major classes of plant hormones (10%)
3. To compare the "prokaryote" and "eukaryote" (10%)
4. Several infected diseases such as SARS, dengue fever and AIDS infected by RNA virus, not by DNA virus, are difficult to design drugs or vaccines to treat them. Why? (10%)
5. Please describe the "tumorigenesis" (10%)
6. Please describe the major contribution of Roger D., the Nobel prize of Chemistry, 2006. (10%)
7. Match the evolution concepts (12%)

7-1: _____ gene flow	a. original source of alleles
7-2: _____ natural selection	b. changes in a population's allele frequencies due to chance alone
7-3: _____ mutation	c. allele frequencies change owing to immigration, emigration, or both
7-4: _____ genetic drift	d. outcome of differences in survival, reproduction among individuals that vary in forms of shared traits
8. Match the terms with suitable descriptions. (8%)

8-1: _____ producers	a. herbivore, carnivores, omnivores
8-2: _____ consumers	b. feed on partially broken down organic matter
8-3: _____ decomposers	c. degrade organic remains and wastes
8-4: _____ detritivores	d. capture sunlight energy