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The genomics revolution made it possible to see just how impactful touch is to plants on a deeper level. ① Peering at the genes of Arabidopsis thaliana, a weedy plant in the mustard family and the lab rat of the plant biology world, researchers saw that touch quietly triggered such a dramatic response in their hormones and gene expression that it could substantially inhibit their growth. ② Arabidopsis is also popular among gardeners for its beautiful flowers. ③ They stroked the arabidopsis with soft paintbrushes, and then analyzed the plants' genetic responses. ④ Within thirty minutes of being touched, 10 percent of the plant's genome was altered. ⑤ Clearly, the plant was reorganizing its priorities to deal with the disturbance, and rerouting energy away from the hard work of getting taller. Touched multiple times, arabidopsis cut its upward growth rate by as much as 30 percent.

1. 무관한 문장 윗글에서 전체 흐름과 관계 없는 문장은?

① ② ③ ④ ⑤

2. 주제 윗글의 주제로 가장 적절한 것은?

① why plants grow taller when touched
② how touch dramatically changes plant genes and growth
③ how paintbrushes damage leaves
④ the history of the genomics revolution
⑤ why arabidopsis needs no light

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Many animals pursue a mixed strategy of ① accumulating both body fat and food, which leads one to ask, "What are the relative advantages and disadvantages of these two forms of energy storage?" Maximum fat deposition increases with body mass whereas maximum food storage is not ② constrained by body size. This means that animals, especially small animals, can accumulate much greater energy reserves in the form of stored food than they can in the form of body fat. Further, stored food is more economical than body fat because fat contributes to body mass, and metabolic rate increases with body mass. In other words, there is a metabolic expense to ③ maintaining fat. Excessive fat accumulations may also have a negative effect on an animal's ability to avoid predators. And, if maintaining a high body temperature is advantageous, animals might be expected to accumulate more energy in the form of a food store than as body fat. On the other hand, stored food may rot over time, may be removed by robbers, or may simply be lost. Many animals must ④ expending energy managing and protecting their food stores. Eating food and converting it to fat eliminates these types of losses and the energetic costs of managing stored food. A large accumulation of body fat adds to an animal's fasting capacity, especially large animals, ⑤ permitting some animals to enter prolonged dormancy in the relative security of a hibernaculum. Thus, both fat accumulation and food storage have some decided advantages.

1. 어법 윗글의 밑줄 친 부분 중, 어법상 틀린 것은?

① ② ③ ④ ⑤

2. 요약문 완성 윗글의 내용을 한 문장으로 요약하고자 한다. 빈칸 (A), (B)에 들어갈 말로 가장 적절한 것은?

Stored food allows (A) _____ energy reserves without adding body mass, while body fat (B) _____ the risks of rotting and theft.

	(A)		(B)
①	larger	……	increases
②	smaller	……	avoids
③	larger	……	avoids
④	smaller	……	increases
⑤	equal	……	ignores

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All of the restaurants are using carefully chosen words to evoke ① vivid mental images of delicious food and rich desserts in order to draw the potential customer to their particular establishment. Just like the restaurants, nature has its own dining establishments. In a fashion similar to the restaurants' financial ② independence upon drawing in many customers, the restaurateurs of the natural world (i.e., flowers) must also ③ attract potential diners to sample their offerings. In the natural world, there are no neon signs or flashy words in which to market a potential meal to hungry animals. These restaurants that I am referring to are the world's flowers, and the potential guests are the host of organisms that visit flowers to obtain nectar and other ④ valuable resources. Instead of using a written language or neon sign, they advertise their offerings just as ⑤ effectively using the language of smell.

1. 어휘 윗글의 밑줄 친 부분 중, 문맥상 낱말의 쓰임이 적절하지 않은 것은?

① ② ③ ④ ⑤

2. 제목 윗글의 제목으로 가장 적절한 것은?

① Flowers: Nature's Restaurants That Advertise with Smell
② Why Restaurants Use Neon Signs
③ Animals Ignore Flower Scents
④ Nectar Is Useless to Insects
⑤ Flowers Need No Visitors

정답 및 해설

5-17 **1.**② **2.**② · 5-18 **1.**④ **2.**③ · 5-19 **1.**② **2.**①

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1. ② 글은 접촉이 식물의 유전자 발현과 성장에 미치는 영향을 다룬다. ②는 애기장대의 꽃이 인기 있다는 이야기로 흐름과 무관하다.

2. ② 붓으로 쓰다듬기만 해도 30분 만에 애기장대 유전체의 10%가 바뀌고 성장이 억제된다는 내용이다. ①은 정반대다.

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1. ④ 조동사 must 뒤에는 동사원형이 와야 하므로 expend가 알맞다. ④ expending → expend.

2. ③ 저장 먹이는 몸무게를 늘리지 않고 '더 큰' 에너지를 비축하게 하고, 체지방은 부패와 도난의 위험을 '피하게' 한다.

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1. ② 식당이 많은 손님을 끌어들이는 데 재정적으로 '의존하는' 것처럼 꽃도 손님을 끌어야 한다. ② independence → dependence.

2. ① 식당이 말로 손님을 끌듯, 자연의 식당인 꽃은 향기라는 언어로 꿀을 찾는 생물을 끌어들인다는 글이다.