系所班組別:資訊系統與應用研究所 考試科目(代碼): 英文(2102) 共\_7\_頁,第\_1\_頁 \*請在【答案卷】作答 Part I. Vocabulary (2% each) Direction: For each problem, select the best word or the best pair of words from the choices to complete each sentence. Since you were \_\_\_\_\_ from school yesterday, you \_\_\_\_\_ our math lesson. A. suspended ... learned B. absent ... missed C. rejected ... taught D. present ... disliked E. away ... enjoyed Construction of the new gymnasium was temporarily \_\_\_\_\_ due to \_\_\_\_ weather conditions. A. suspended ... poor B. ruined ... perfect C. completed ... unfortunate D. forgotten ... agreeable E. designed ... unpredictable Taylor has a tendency to \_\_\_\_\_ the truth. As a result, it's hard to \_\_\_\_\_ the things he says. A. exaggerate ... trust B. manipulate ... doubt C. tell ... believe D. invent ... disprove E. uphold ... imagine Though my colleagues were in favor of ending our research, I wanted to A. abandon B. continue C. stop D. investigate

E. change

共\_\_7\_\_頁,第<u>\_\_2</u>\_頁 \*請在【答案卷】作答

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5.	Eleanor does not enjoy exercising, she goes to the gym to stay healthy.
	A. Therefore
	B. Nevertheless
	C. Consequently
	D. Moreover
	E. As a result
5.	Factory managers constantly think of ways to increase — to manufactur
	more parts in less time.  A. efficiency
	B. pollution
	C. insurance
	D. invention
	E. wages
7.	Unlike her curious neighbor, Brianna was about who would move in to
	the empty house down the street.
	A. doubtful
	B. concerned
	C. skeptical
	D. excited
	E. uninterested
8.	The invention of the telephone has made communication much than it
	was before.
	A. worse
	B. more expensive
	C. easier
	D. more boring
	E. more secure

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	共 <u>7</u> 頁第 <u>3</u> 頁  *請在【答案卷】作答
	Health insurance prevents routine medical visits from becoming too for the average citizen. Without insurance, seeing a doctor can be very expensive.  A. helpful B. easy C. costly D. valuable E. advantageous
	The senator's plan was highly Congress held intense debates about it for days.  A. agreeable B. optimistic C. beneficial D. patriotic E. controversial
11.	Compliance with the school's curriculum is For example, students must take at least two years of math.  A. grammatical B. mandatory C. complicated D. creative E. elective
12.	Despite a wealth of evidence supporting the idea that wolves are very caring and social creatures, many people still that they are nothing more than cruel, vicious animals.  A. reject B. dream C. refute D. assert E. deny

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Part II. Translation into English (10% each)

- 13. 科技的快速發展。對於人們如何學習有很大的衝擊。
- 14. 社群網路的網站在網路世代的年輕之間,有最高的滲透率。

Part III. Editing (2% each)

Revise the following sentences to make them grammatically correct.

- 15. A number of students has already registered.
- 16. The number of cases were surprising.
- 17. Just two years after finishing graduate school, John's career took off.
- 18. After ransacking the house, Ben's wallet finally was found under the dog's bowl.
- 19. Thumbing through the newspaper, my eye was suddenly caught by a small article.
- 20. Who do you think they will choose?
- 21. The committee was unable to get their report out by the deadline.
- 22. Participants should sign in by noon and pick up your registration materials at the front desk.
- 23. A computerized database index needs to be reorganized when it has become fragmented, or to correct the skewing of values.
- 24. It may be necessary to either add or subtract items from this list.
- 25. This set of instructions are not complete.
- 26. The key to make money is speed, not safety.

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Part IV. Short Answers (16% each)

Read the following article and answer the questions using FULL SENTENCES in ENGLISH.

- 27. According to this study, please analyze the correlation of the facial diversity with the group size and the living area.
- 28. There are some other articles that criticize this study. What do you think the major opinions in these articles? Please write down in the order of the significance.

UCLA biologists working as "evolutionary detectives" studied the faces of 129 adult male primates from Central and South America, and they offer some answers in research published today, Jan. 11, in the early online edition of the journal Proceedings of the Royal Society B. The faces they studied evolved over at least 24 million years, they report.

"If you look at New World primates, you're immediately struck by the rich diversity of faces," said Michael Alfaro, a UCLA associate professor of ecology and evolutionary biology and the senior author of the study. "You see bright red faces, moustaches, hair tufts and much more. There are unanswered questions about how faces evolve and what factors explain the evolution of facial features. We're very visually oriented, and we get a lot of information from the face."

Some of the primate species studied are solitary, while others live in groups that can include dozens or even hundreds of others. The life scientists divided each face into 14 regions; coded the color of each part, including the hair and skin; studied the patterns and anatomy of the faces; and gave each a "facial complexity" score. They studied how the complexity of primate faces evolved over time and examined the primates' social systems. To assess how facial colors are related to physical environments, they analyzed environmental variables, using the longitude and latitude of primates' habitats as a proxy for sun exposure and temperature. They also used statistical methods to analyze the evolutionary history of the primate groups and when they diverged from one another.

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"We found very strong support for the idea that as species live in larger groups, their faces become more simple, more plain," said lead author Sharlene Santana, a UCLA postdoctoral scholar in ecology and evolutionary biology and a postdoctoral fellow with UCLA's Institute for Society and Genetics. "We think that is related to their ability to communicate using facial expressions. A face that is more plain could allow the primate to convey expressions more easily.

"Humans have pretty bare faces, which may allow us to see facial expressions more easily than if, for example, we had many colors in our faces." The researchers' finding that faces are more simple in larger groups came as a surprise. "Initially, we thought it might be the opposite," Santana said. "You might expect that in larger groups, faces would vary more and have more complex parts that would allow one individual to identify any member of that group. That is not what we found. Species that live in larger groups live in closer proximity to one another and tend to use facial expressions more than species in smaller groups that are more spread out. Being in closer proximity puts a stronger pressure on using facial expressions."

"This finding suggests that facial expressions are increasingly important in large groups," said co-author Jessica Lynch Alfaro, associate director of the UCLA Institute for Society and Genetics. "If you're highly social, then facial expressions matter more than having a highly complex pattern on your face."

The evolutionary biologists also found that when primates live in environment with more species that are closely related, their faces are more complex, regardless of their group size. This finding is consistent with their need to recognize individuals of other closely related species that live in the same habitat to avoid interbreeding, Santana said.

Santana, Lynch Alfaro and Alfaro present the first quantitative evidence linking social behavior to the evolution of facial diversity and complexity in primates, and they also show that ecology controls aspects of facial patterns.

As species live closer to the equator, the skin and hair around their eyes get darker, the biologists report. They also found that regions of the face around the nose and mouth get darker when species live in humid environments and denser forests and that facial hair gets longer as species live farther from the equator and the climate gets colder, which may be related to regulating body temperature.

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"This is a good start toward understanding facial diversity," Alfaro said. "There was not a good idea before about what aspects of faces were shaped by which evolutionary pressure. Sharlene [Santana] has been able to say what social complexity, social behavior and ecology are doing to faces."

Previous studies, they noted, have found that primate species with moustaches and beards (such as No. 11 and No. 9 in the accompanying image) tend to look poker-faced; they don't move their faces much when they communicate, compared with other species (such as No. 4).

Alfaro praised Santana's ability to answer some of these difficult evolutionary questions. "Sharlene has tested ideas that have been virtually impossible to test before," he said. "She has found a clever way to implicate the degree of sociality as contributing to the diversity of faces. Social behavior explains some aspects of facial diversity."

Santana also devised a way to test a theory that has been in the biological literature for decades but had never been tested before. As a lineage diverges and species accumulate, a series of changes in facial coloration and body coloration emerges. The theory she was able to test suggests that once a species evolves to have a certain color, such as hair color, the change is irreversible and it cannot evolve back to a previous color in its lineage. Santana found this theory to be wrong. "The idea in biology that evolutionary change is irreversible is rejected very strongly by our data," Alfaro said.

Does the study have implications for the evolution of human faces? The findings do suggest, Alfaro said, that an important factor in shaping human faces is the premium on making unambiguous facial expressions. "Humans don't have all these elaborate facial ornamentations, but we do have the ability to communicate visually with facial expressions," Alfaro said. "Does reduced coloration complexity create a blank palate for visual expressions that can be conveyed more easily? That is an idea we are testing."

(Extracted from the NSF Press released, 2012)