

國立成功大學

111學年度碩士班招生考試試題

編 號：53

系 所：地球科學系

科 目：科學英文

日 期：0220

節 次：第 1 節

備 註：不可使用計算機

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第1頁，共3頁

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

一、選擇題：(30 分，每題 3 分)

- (1) His research interests centre on the relationship between _____ and everyday, commonsense knowledge and how this plays out in the communication, development and public legitimacy of the sciences.
(A) expenditure
(B) expedition
(C) expectorate
(D) expertise
- (2) If we want to avoid dangerous or even catastrophic tipping points and the escalating risks of climate change hotspots, limiting the temperature rise to 1.5 degrees Celsius is a global _____.
(A) impassable
(B) impeach
(C) imperative
(D) impeccable
- (3) While widely known, the _____ hole problem is one of the least understood environmental issues by the public.
(A) ozone
(B) oyster
(C) oxytocin
(D) oxymoron
- (4) People in central and southern Philippines in _____ need of food, water and shelter after Typhoon Rai caused severe damage last year.
(A) denial
(B) reluctant
(C) desperate
(D) possessive
- (5) The National Weather Service is an agency of the United States federal government that is tasked with providing weather _____, warnings of hazardous weather to the public for the purposes of protection, safety, and general information.
(A) atmospheres
(B) oxygen
(C) carbon dioxide
(D) forecasts

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第2頁，共3頁

- (6) In tropical _____ forests, length of the dry period may have a profound influence on leaf dynamics, plant growth and survival.
- (A) holistic
 - (B) moist
 - (C) bleak
 - (D) lonely
- (7) The current _____ crisis is due to more than a century of pollution, climate change, population growth and other human activities.
- (A) instruction
 - (B) distinction
 - (C) extinction
 - (D) diction
- (8) Before he changed his career, he _____ a restaurant bartender for many years.
- (A) is
 - (B) has been
 - (C) had been
 - (D) were
- (9) _____, we all went home.
- (A) Having set the sun
 - (B) After setting the sun
 - (C) Being the sun set
 - (D) The sun having set
- (10) On November 7, the eye of the typhoon made its first _____ in the Philippines at peak strength.
- (A) landfall
 - (B) landslide
 - (C) landscape
 - (D) landform

二、英翻中：(30 分)

Please translate the following article paragraph adapted from “*Investigating a tsunamigenic megathrust earthquake¹ in the Japan Trench*” (Kentaro Imai, Takeshi Iinuma and Shuichi Kodaira, 2021) concisely into Chinese.

The 2011 Tohoku-oki earthquake² occurred in the Japan Trench³ 10 years ago, where devastating earthquakes and tsunamis have repeatedly resulted from subduction of the Pacific plate. Densely instrumented seismic, geodetic⁴, and tsunami precisely recorded the event, including seafloor observations. A large coseismic⁵ fault slip that unexpectedly extended to a shallow part of megathrust fault was documented. Strong lateral variations of the coseismic slip near the trench were recorded from marine geophysical studies, along with a possible cause of these variations. The seismic activities in east Japan are still higher than those before the earthquake, and crustal deformation is still occurring. Although the recurrence probability of a great earthquake (magnitude = ~9) in the Japan Trench in the near future is very low, a large normal fault earthquake seaward of the Japan Trench is a concerning possibility.

1. megathrust earthquake 大型逆衝區地震
2. Tohoku-oki earthquake 日本東北大地震
3. Japan Trench 日本海溝
4. geodetic 空間測量的
5. coseismic 同震的

三、英文作文：(40 分)

Please write a short essay to clearly describe and explain the natural hazards in Taiwan.