

中央警察大學 113 學年度碩士班入學考試試題

所 別：各所
科 目：英文

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一、Vocabulary and Usage: Choose the best word or phrase to complete each sentence. (20 分)

1. Law enforcement agencies are increasingly prioritizing measures to combat the prevalence of _____, a form of harassment that involves unwanted and obsessive attention towards an individual.
(A) hacking (B) stalking (C) graffiti (D) jaywalking
2. The defendant claimed that the confession was made under _____, arguing that he was coerced into admitting guilt by threats of violence against his family.
(A) duress (B) consent (C) compliance (D) corroboration
3. The British Royal Family decided to sue a French magazine for publishing paparazzi photographs of their members and _____ their privacy.
(A) detecting (B) infringing (C) adventuring (D) violating
4. After the earthquake, the authorities ordered the immediate _____ of all buildings in the affected area.
(A) reinforcement (B) demolition
(C) evacuation (D) detention
5. A bomb _____ outside an elementary school and injured lots of passersby, prompting the city police to start investigating this case.
(A) set out (B) went off (C) lit up (D) put out

6. The defense attorney successfully argued that the evidence obtained through illegal search and seizure was _____ in court proceedings.
(A) adoptable (B) legitimate (C) inadmissible (D) reliable
7. Several gangsters involved in the assault of a police officer are still _____.
(A) out of hand (B) down to earth (C) at large (D) out of breath
8. Without permission, passengers are not allowed to stay within the _____ of MRT routes, stations, or trains during non-service hours.
(A) gratitude (B) confines (C) privilege (D) alliance
9. The city council allocated funds for the renovation of critical _____, including bridges, roads, and water supply systems.
(A) recreational facilities (B) attractions
(C) landmarks (D) infrastructure
10. The company's accountant was charged with _____, accused of unlawfully transferring company funds into her personal accounts.
(A) conspiracy (B) extortion (C) mischief (D) embezzlement

二、Translation : (30 分)

(一) 英譯中 (15 分)

Internet fraud, or cyber fraud, involves deceitful practices conducted over the internet to swindle individuals or organizations for financial gain. It encompasses a range of fraudulent activities, including phishing scams, identity theft, fake auctions, investment fraud, and credit card fraud. Perpetrators utilize sophisticated methods to trick victims into disclosing sensitive information or transferring money, posing substantial risks to personal and financial security.

(二) 中譯英 (15 分)

毒品販運活動對社會造成了嚴重的影響，包括犯罪率上升、社會穩定受到威脅以及人民健康問題增加。為此，政府加大了對毒品販運的打擊力度，提高了刑事懲罰和查緝行動，並加強邊境巡邏及國際合作以打擊販毒集團的行動。

三、Reading Comprehension and Cloze Test : (20 分)

(一) Reading Comprehension : After reading the passage, choose the best answer to each question. (10 分)

We have been cautioned that whether cell phone conversation is simply small talk with our friends or the making of a complex financial deal, when we are behind the wheel, it distracts us from the business at hand. Researchers have found out exactly why. The brain has limited capacity to handle multiple tasks simultaneously, leading to compromised processing of visual signals when engaged in a conversation. With visual and auditory signals competing, a driver's ability to see and react to what's ahead--even when gazing directly at a car, sign or pedestrian--is diminished. This phenomenon of "inattention blindness," in which the brain doesn't fully process what the eyes are taking in, helps explain how cell phone conversations distract drivers and contribute to an increasing number of accidents.

With over 330 million cell phone subscribers in the U.S., studies indicate that a significant portion of them use their phones behind the wheel. "Looking and seeing aren't one and the same," said University of Utah psychologist David Strayer, who has spent five years studying how the use of cellular phones affect driving. "Your eyes being directed at something doesn't mean you're processing it. Looking means paying attention. When you're not attending to driving, you're more of a hazard." With a conversation diverting their attention from the road, drivers are unable to react quickly to sudden events such as a child running into their path or a light change. The damage occurs equally with handheld or hands-free models. That suggests the problem lies in the distraction of the conversation, not in the holding of the phone.

1. What is the best title for this passage?
 - (A) The Hazards of Cell Phone Conversations While Driving
 - (B) The Benefits of Hands-Free Models in Driving Safety
 - (C) Exploring the Cognitive Impact of Multitasking While Driving
 - (D) The Role of Cell Phones in Car Accidents

2. How does University of Utah psychologist David Strayer characterize the difference between “looking” and “seeing” in the context of driving?
 - (A) Looking means paying attention, while seeing means being distracted.
 - (B) Looking implies processing visual signals, while seeing implies visual distraction.
 - (C) Looking and seeing are synonymous in the context of driving.
 - (D) Looking involves gazing directly at objects, while seeing involves understanding the road environment.

3. What is the definition of the term “inattention blindness” as described in the passage?
 - (A) A condition where one is blind to certain visual stimuli while driving
 - (B) A phenomenon where one's visual perception is hindered due to lack of attention
 - (C) A cognitive state where one becomes hyper-aware of surrounding distractions
 - (D) A neurological disorder affecting the eye's ability to process visual information

4. According to the author, what is the real cause behind all the cell phone-related accidents?
- (A) The act of holding the cell phone.
 - (B) The cause is still unknown.
 - (C) The phone conversation itself.
 - (D) Drivers cannot see what is ahead of them.
5. According to the passage, why does engaging in cell phone conversation while driving lead to distraction?
- (A) Because it increases the visual processing capacity of the brain.
 - (B) Because it reduces the brain's ability to process visual signals.
 - (C) Because it enhances the driver's reaction time.
 - (D) Because it improves the driver's attention to the road.

(二) Cloze Test : Choose the best words or phrases to complete the following passage. (10分)

Taiwan was struck by a devastating earthquake on April 3, which had a significant impact on the eastern coast and the city of Hualien. ___1___ the chaos and destruction, the brave efforts of emergency responders, including police and specialized search and rescue teams, emerged as beacons of hope amid the crisis.

The ___2___ of the Hualien earthquake unfolded rapidly, demanding quick and decisive action from rescue teams. Rescuers ___3___ collapsed buildings, risking their lives to extract survivors trapped beneath the rubble. With every moment crucial, these courageous individuals displayed remarkable courage and determination in their rescue missions.

Alongside the search and rescue workers, police officers played a ___4___ role in maintaining order and coordinating rescue operations. Despite the dangers posed by aftershocks and unstable structures, these valiant professionals remained steadfast in their commitment to saving lives.

Notably, the indispensable contribution of rescue dogs cannot be overstated. Highly trained and incredibly resolute, these ___5___ heroes sniffed out survivors buried deep within the debris, guiding rescue teams to locations where human senses alone could not penetrate. Their unwavering dedication and fortitude exemplified the true spirit of service and sacrifice.

- 1.(A) Despite (B) In accordance with
(C) While (D) In terms of
- 2.(A) onset (B) aftermath (C) magnitude (D) afterwards
- 3.(A) plunged into (B) bumped into
(C) indulged into (D) ventured into
- 4.(A) redundant (B) optional (C) capricious (D) pivotal
- 5.(A) feline (B) canine (C) rodent (D) equine

四、Essay : (30 分)

Write a short essay on the following topic. The length of the essay should be no less than 100 words and no more than 250 words.

The pros and cons of being a police officer - from the perspective of the general public.

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中央警察大學 113 學年度碩士班入學考試試題

所 別：防災研究所
科 目：災害分析與統計

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- 一、近期的地震災害，在花蓮地區造成嚴重的災情。事前的災害風險評估，可以作為因應可能的災害、相關預防整備措施的基礎。評估災害衝擊（estimate losses）可以從哪些方面評估災害可能造成的衝擊程度？
- 二、災害研究需藉助科學的研究方法來驗證災害的成因，並據以提擬相應的防救災策略。試述：災害分析的研究方法及其適用的範圍？
- 三、請以學校設施為對象，研擬災時疏散計畫。
- 四、請以山區聚落為對象，研擬災時收容安置計畫。

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科 目：災害管理

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一、災害復原重建是災害管理重要的階段工作之一，請解釋何謂災害復原重建？依據我國《災害防救法》規定，為實施災後復原重建，各級政府應依權責實施的事項有哪些？

二、請說明計畫在災害管理中的角色與重要性為何？對於災害防救計畫的分類與內容，我國《災害防救法》有何規定？

三、試論在災害管理的四階段中，運用地理資訊系統（Geographic Information System, GIS）進行空間分析、產製圖資，能如何有助於風險溝通？

四、請比較分析社區防災過程中居民（people）、政府（officials）、媒體（mass media）、外部支援者（supporters）四者所包括的範疇與重要性。

中央警察大學 113 學年度碩士班入學考試試題

所 別：防災研究所
科 目：氣候變遷與災害

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- 一、如何定義永續發展（sustainable development）？並請從社會、經濟與環境 3 個面向，分別說明永續發展的基本主張。
- 二、近年來極端氣候造成全球各地大型災害頻傳，嚴重威脅人類生存。面對氣候變遷，就國家的角色，可以從哪些方面來協助緩解氣候變遷所造成的極端氣候以及對人類生存環境造成的威脅？
- 三、IPCC AR6 WGII「衝擊、調適與脆弱性」報告指出，透過因應性別、種族、身心障礙、年齡、居住區位、所得等不平等的法律、政策及 SOP 的擬定與執行，可降低氣候變遷的脆弱性（SPM.D.2.1）。請闡述及舉例說明，為何減少不平等，可以增加因應氣候變遷的韌性？
- 四、依據「臺灣氣候變遷科學報告—物理現象與機制」的推估指出，隨著全球氣候變遷，臺灣未來的氣候也將受影響。試從溫度、降雨、海平面、颱風等面向，說明其未來變化趨勢，以及會加劇哪些災害樣態？

中央警察大學 113 學年度碩士班入學考試試題

所 別：警察政策研究所、刑事警察研究所、資訊管理研究所、鑑識科學研究所、行政管理研究所、防災研究所、水上警察研究所海洋科技組
科 目：統計學(同等學力加考)

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一、以下為 1 位員警測驗 3,000 公尺 10 次跑步所需時間（單位：分）：

13.8、13.9、13.5、13.6、13.6、13.5、13.8、14.0、13.8、13.7

假設該員警跑步時間呈常態分配，試求：

- (一) 請問該員警 3,000 公尺跑步所需時間的平均數及標準差。（15 分）
- (二) 該員警跑步平均時間的 95% 信賴區間。（請說明計算方式）（10 分）

二、取自一常態母體之隨機樣本，樣本數 $n=36$ 、標準差 $s=3$ ，發現 95% 的信賴區間為 $(20.02, 22.98)$ 。

- (一) 在 $\alpha=0.05$ 之下，檢定 $H_0: \mu=20$ ； $H_1: \mu \neq 20$ 的結論為何？（15 分）
- (二) 若檢定 $H_0: \mu=23.0$ ，則結論又為何？（10 分）

三、假設某地區每個月發生假投資詐欺之案件數服從標準差為 10 件，但平均件數 μ 為未知之常態分配，現從犯罪資料中隨機抽出 25 個月份的資料來進行分析，且欲檢定之虛無假設為 $H_0: \mu=20$ ，對立假設為 $H_1: \mu \neq 20$ ，若已知拒絕域為 $C = \{\bar{X} < 16 \text{ 或 } \bar{X} > 24\}$ 。

(一) 試求型 I 誤差發生的機率 α 為何？(12 分)

(二) 試求當 $\mu=22$ (H_1 成立) 時，型 II 誤差發生的機率 β 為何？(13 分)

(參考數值： $Z_{0.05}=1.645$ 、 $Z_{0.025}=1.96$ 、 $Z_{0.01}=2.33$)

(參考數值： $Z_{0.1587}=1.00$ 、 $Z_{0.0228}=2.00$ 、 $Z_{0.0013}=3.00$)

四、請回答下列問題：

(一) 某大學實施新的校園停車政策剛屆滿一周年，為了解教職員、全時學生與在職進修學生的支持程度，於是委託某位統計老師進行意見調查，經整理得下列資料：

Opinion	全時學生	教職員	在職進修學生	合計
支持	62	87	31	180
不支持	38	63	19	120
合計	100	150	50	300

若已知顯著水準為 $\alpha=0.05$ ，試檢定支持程度與受訪者身份是否獨立或相關。(15 分)

(二) 在進行統計分析時，相關係數可用來判斷 2 個不同變項間之相關程度。對於 2 個類別變項，我們通常使用列聯係數 $\frac{|\chi^2|}{\sqrt{\chi^2+n}}$ 之數值大小來衡量相關程度 (其中 χ^2 表示檢定的卡方值， n 表示樣本數)。試計算本題對應之列聯係數，並判斷「滿意程度」與「受訪者身份」兩變項間是屬於何種相關？(高度相關、中度相關或低度相關) (10 分)

(參考數值： $\chi_{0.05}^2(1)=3.84$ 、 $\chi_{0.05}^2(2)=5.99$ 、 $\chi_{0.05}^2(3)=7.81$)

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