

國立中興大學 113 學年度

學士後醫學系公費生招生考試

英文科試題

考試時間：80 分鐘

考試開始鈴響前，不得翻閱試題，且不得書寫、畫記、作答！
本考試不得使用計算機

考生請注意：

- 一、考生應確實關閉行動電話(或取出電池)及手錶之鬧鈴設定；除准考證及考試必需用品外，所有物品(含行動電話、穿戴式裝置等)均應立即放置於臨時置物區，不得發出聲響或有影響試場秩序之情形。
- 二、請確認抽屜中、桌椅下、座位旁均無其他非必要用品。如有任何問題請立即舉手反映。
- 三、坐定後，雙手離開桌面，請核對並確認准考證、座位標籤、及答案卡上之准考證號碼是否完全相同。如有錯誤，應立即舉手請監試人員處理。
- 四、考生應試時不得飲食、飲水、抽菸、嚼食口香糖。
- 五、答案卡劃記以 2B 鉛筆為佳，劃記時要粗黑、清晰，劃滿作答格，不可出格，不得折損答案卡，修正作答以軟性橡皮擦擦拭乾淨，且不得使用修正液(帶)修正，未遵照正確作答方式而致機器無法正確辨識答案者，考生自行負責，不得以任何理由補救。答案寫在試題紙上者不予計分。
- 六、本試題必須與答案卡一併繳回，不得攜出試場。

國立中興大學 113 學年度學士後醫學系招生考試試題

科目：英文科

系所：學士後醫學系甲、乙組

本科目 **不可以** 使用計算機

本科目試題共 10 頁

選擇題(單選題，共 50 題，一題 2 分，答錯不倒扣)

This test comprises 50 items, each valued at two points, for a total of 100 points. Each test item allows for selection of only one correct option. All answers must be marked exclusively on the card provided.

- I. Vocabulary: Read each question carefully and choose the option that best completes the sentence or fits the given context.**
- In sharp contrast to his elder sister's admirable sense of responsibility, John's demeanor proved to be notably deficient in _____.
(A) prudence
(B) docility
(C) avarice
(D) fecklessness
 - The ongoing _____ dispute among the brothers only escalated, festering into deeper resentment and animosity.
(A) acrimonious
(B) capricious
(C) ambivalent
(D) nostalgic
 - The ebullient atmosphere in the soccer team's dressing room swiftly transformed into one of _____ as their rivals netted two rapid goals.
(A) vengeance
(B) aesthetics
(C) despondency
(D) optimism
 - It was widely assumed that the coach's _____ played a pivotal role in the recent extraordinary success of his team. However, discerning insiders recognized that it was his extensive experience rather than any innate acumen that led to their winning streak.
(A) empathy
(B) acumen
(C) amiability
(D) pragmatism
 - The policies of the organization were convoluted, opaque, and _____ with legal jargon, presenting a significant challenge for new employees to comprehend them without proper orientation.
(A) germane
(B) malfeasance
(C) scrutinized
(D) replete

背面有題，請繼續作答。

6. While technology progresses swiftly, turning once-fantastical notions into everyday commodities, the _____ outcomes it brings must not be dismissed. For example, excessive use of technology and electronic gadgets can hinder a child's social skill development, leading to feelings of isolation.
- (A) efficacious
 - (B) pernicious
 - (C) propitious
 - (D) perfidious
7. Despite garnering a degree of _____, the religious leader often faced condemnation for delivering inflammatory speeches, inciting members of his religious faction to engage in conflict with adherents of other faiths and sects.
- (A) advocates
 - (B) adversaries
 - (C) rivals
 - (D) emulations
8. A(n) _____ is a biological molecule that speeds up chemical reactions in living organisms.
- (A) substrate
 - (B) enzyme
 - (C) inhibitors
 - (D) activation
9. Increasing a harvest's yield would be beneficial only when _____ additions in time, exertion, and other variable factors of production are not also required.
- (A) predestined
 - (B) analogous
 - (C) commensurate
 - (D) indeterminate
10. Contrary to the suggestions made by _____ philosophies of childrearing, there is no requirement that the day-to-day activities involved in raising a child be clear-cut, straightforward, and unchanging—that is, there is no requirement that life follow philosophy.
- (A) inexact
 - (B) aggressive
 - (C) random
 - (D) systematic

II. Grammar: Read each question carefully and choose the best option that fits the sentence appropriately.

11. The new employees would appreciate _____ strategies aimed at improving the airport user experience.
- (A) to discuss
 - (B) discuss
 - (C) discussed
 - (D) discussing
12. The team's success in the competition hinged _____ the captain's leadership skills and the players' dedication.
- (A) on
 - (B) to
 - (C) for
 - (D) with

13. _____ refugees are from Syria.
(A) The majority of
(B) Much
(C) Large
(D) The many
14. When Maria got home, she found that someone had broken into her apartment. She immediately called the police, feeling uneasy that she _____.
(A) forgot to lock the door
(B) forget to lock the door
(C) had forgotten to lock the door
(D) forgets to lock the door
15. Mr. Nigam was _____ considering retirement when his boss asked him to be the head of security at the new facility.
(A) on the brink of
(B) in the vicinity of
(C) in proximity to
(D) at the forefront of
16. The facilities of one of the hospitals in Bandung _____.
(A) is as good or better the hospitals in Yogyakarta
(B) are as good or better than that the hospitals in Yogyakarta
(C) are as good or better than the hospitals in Yogyakarta
(D) are as good or better than those of the hospitals in Yogyakarta
17. The newly-discovered artifacts Liang Bua Flores are given special terms _____.
(A) who indicate their location of discovery
(B) whose indication of discovery
(C) which locating the indication of discovery
(D) indicating of the location of their discovery
18. While my sister enjoys swimming, I _____ running.
(A) prefer to do
(B) to prefer doing
(C) preferring to do
(D) do preferring
19. This stadium can hold _____.
(A) much audience
(B) a large audience
(C) much audiences
(D) many audiences
20. Who _____ when John is likely to turn up?
(A) know
(B) do know
(C) is knowing
(D) knows

背面有題，請繼續作答。

III. Cloze: Consider the context of the passage and the information provided to help you determine the appropriate sentences for the blanks. Choose the best option that maintain the coherence of the passage appropriately.

Questions 21 to 23

In a world driven by data and technology, the importance of critical thinking cannot be overstated. As we navigate through a sea of information, it becomes increasingly crucial to sift through the noise and discern fact from fiction. _____21_____ By questioning assumptions, evaluating evidence, and considering alternative perspectives, we can make informed decisions and solve complex problems. _____22_____ In essence, critical thinking serves as a catalyst for creativity and innovation, driving progress and advancement across various aspects of society. In today's rapidly changing landscape, where challenges are multifaceted and solutions are not always straightforward, the ability to think critically is more valuable than ever. _____23_____ Ultimately, critical thinking empowers individuals to navigate the complexities of the world with clarity and confidence, enabling us to thrive in an increasingly complex and uncertain environment.

- (A) Critical thinking equips us with the tools to analyze situations, weigh options, and arrive at reasoned conclusions.
- (B) Critical thinking serves as our compass, guiding us in our quest for truth and understanding.
- (C) Moreover, critical thinking fosters creativity and innovation, as it encourages us to explore new ideas and challenge the status quo.
- (D) Critical thinking is an essential skill for students to develop, as it prepares them for success in both academic and professional settings.
- (E) Educators play a vital role in fostering critical thinking skills among students through interactive learning activities and open-ended discussions.

Questions 24 to 26

The sun dipped below the horizon, casting a warm glow across the landscape as evening descended upon the sleepy village. Shadows lengthened, stretching out like dark fingers across the cobblestone streets and quaint cottages that lined the winding roads. In the distance, the sound of a church bell echoed through the air, signaling the end of another day in this idyllic corner of the world. _____24_____ Lights flickered on in windows, illuminating cozy interiors where families gathered around tables laden with hearty meals. Laughter and conversation filled the air, mingling with the aroma of freshly baked bread and simmering pots of stew. _____25_____ Underneath a canopy of stars, couples strolled hand in hand along moonlit paths, their footsteps echoing softly against the cobblestones as they savored the quiet beauty of the night. In this moment, all worries and cares faded away, replaced by a sense of peace and contentment that seemed to permeate the very air itself. _____26_____

- (A) Meanwhile, in the town square, musicians gathered to serenade the evening crowd with lively tunes, their melodies drifting through the air and adding to the sense of magic that enveloped the village at nightfall.
- (B) For in this quaint village, time seemed to stand still, allowing its inhabitants to savor each precious moment as if it were frozen in time.
- (C) As dusk settled in, the village came alive with activity.
- (D) During the day, the village remained deserted, devoid of any signs of life.
- (E) In the morning, the village was enveloped in silence, with not a soul stirring.

Questions 27 to 30

Medicine, the intricate amalgamation of science, compassion, and innovation, stands as a beacon of hope in the quest for human well-being. It traverses through the corridors of history, from ancient civilizations' primitive remedies to the sophisticated treatments of the modern era. _____27_____ Healthcare professionals, including physicians, nurses, pharmacists, and allied health workers, dedicate their lives to the noble pursuit of healing and alleviating suffering. _____28_____ Vaccination campaigns, sanitation efforts, and health education programs have played pivotal roles in reducing the burden of infectious

diseases and improving overall health outcomes. Additionally, the recognition of mental health as an integral component of well-being has led to advancements in psychiatric care and psychological therapies.

29 The rise of antibiotic resistance, the threat of global pandemics, and the impacts of climate change on health further underscore the complexity of contemporary medical practice. Additionally, the aging population and the growing burden of non-communicable diseases pose significant challenges to healthcare systems worldwide. Despite these obstacles, healthcare professionals remain dedicated to advancing medical knowledge, improving patient outcomes, and advocating for policies that prioritize health equity. 30 As society grapples with unprecedented health challenges, the resilience and ingenuity of the medical community serve as a beacon of hope, driving progress and transformation in healthcare systems across the globe.

- (A) However, the field of medicine faces ongoing challenges in adapting to rapidly evolving technologies, integrating electronic health records, and addressing the ethical dilemmas posed by medical advancements.
- (B) The field of medicine encompasses a diverse array of specialties, from primary care to specialized areas such as cardiology, oncology, and neurology.
- (C) Through interdisciplinary collaboration, community engagement, and innovative approaches to care delivery, the field of medicine continues to evolve and adapt to meet the ever-changing needs of individuals and populations.
- (D) Beyond individual patient care, medicine extends its reach to public health initiatives aimed at promoting wellness and preventing disease on a population level.
- (E) Despite these advancements, the field of medicine also faces criticism for issues such as overprescribing medications, medical errors, and conflicts of interest within the healthcare industry.

IV. Reading Comprehension: Read the content and answer questions for each passage.

Questions 31 to 35

The ancient city of Petra, nestled amidst the rocky desert landscapes of modern-day Jordan, is a testament to the ingenuity and architectural prowess of its Nabatean builders. Carved directly into the rose-red cliffs, Petra flourished as a major trading hub from the 4th century BCE to the 2nd century CE. Its strategic location along the famous Silk Road facilitated the exchange of goods and ideas between the Mediterranean, Arabian, and Asian regions.

One of Petra's most iconic landmarks is the Treasury, known locally as Al-Khazneh. This magnificent structure, with its intricate façade adorned with columns, statues, and friezes, is believed to have served as a tomb for a Nabatean king. Legend has it that the Treasury also harbors hidden treasures, leading to numerous archaeological expeditions and treasure hunts over the centuries.

Beyond the Treasury, Petra boasts a wealth of archaeological wonders, including the Monastery, the Royal Tombs, and the Roman Theater. The Monastery, perched atop a mountain peak, is a marvel of Nabatean architecture, while the Royal Tombs showcase elaborate burial chambers carved into the cliffs. The Roman Theater, built during the Roman occupation of Petra, once hosted grand performances and gatherings, echoing with the voices of ancient civilizations.

Today, Petra stands as a UNESCO World Heritage Site and attracts visitors from around the globe who come to marvel at its beauty and immerse themselves in its rich history. However, the site faces numerous challenges, including erosion, vandalism, and the pressures of tourism. Efforts are underway to preserve and protect Petra for future generations to enjoy and appreciate.

Despite the challenges, ongoing archaeological excavations continue to uncover new insights into Petra's history and significance. Recent discoveries have shed light on the city's complex water management systems, demonstrating the advanced engineering skills of the Nabateans. Additionally, studies of the

背面有題，請繼續作答。

city's rock-cut architecture provide valuable clues about ancient building techniques and societal structures.

Furthermore, initiatives aimed at sustainable tourism are being implemented to mitigate the impact of visitor foot traffic on Petra's fragile infrastructure. This includes the development of designated walking paths, visitor education programs, and stricter regulations to preserve the integrity of the archaeological site. By balancing conservation efforts with responsible tourism practices, stakeholders aim to ensure that Petra remains a timeless marvel for generations to come.

31. What is the iconic landmark in Petra believed to have served as a tomb for a Nabatean king?
 - (A) The Monastery
 - (B) The Royal Tombs
 - (C) The Roman Theater
 - (D) The Treasury
 - (E) The Citadel
32. What was Petra known for during its prime?
 - (A) Being a military fortress
 - (B) Serving as a major trading center
 - (C) Being a religious pilgrimage site
 - (D) Serving as a royal residence
 - (E) All of the above
33. Which of the following statements regarding Petra is **FALSE**?
 - (A) Petra flourished as a major trading hub from the 4th century BCE to the 2nd century CE.
 - (B) The Treasury is speculated to have served as a tomb for a Nabatean king.
 - (C) The Monastery is a prime example of Roman architecture.
 - (D) The Royal Tombs showcase elaborate burial chambers carved into the cliffs.
 - (E) The Roman Theater was built during the Hellenistic period.
34. How do initiatives aimed at sustainable tourism impact Petra?
 - (A) They destroy the ancient landmarks.
 - (B) They preserve the integrity of the archaeological site.
 - (C) They damage the city's water management systems.
 - (D) They increase visitor foot traffic.
 - (E) They neglect conservation efforts.
35. What evidence suggests that the Nabateans possessed advanced architectural skills in Petra?
 - (A) The presence of hidden treasures within the Treasury
 - (B) The intricate façade of Treasury adorned with columns, statues, and friezes
 - (C) The strategic location of Petra along the Silk Road
 - (D) The erosion, vandalism, and tourism pressures faced by Petra
 - (E) The Monastery's location atop a mountain peak

Questions 36 to 40

In the unfathomable depths of the Antarctic wilderness lies an enigmatic ecosystem shrouded in mystery and resilience. The Antarctic continent, with its vast icy expanses and extreme climatic conditions, stands as one of the most inhospitable yet captivating regions on Earth. Spanning approximately 14 million square kilometers, it represents the coldest, driest, and windiest continent, harboring unique adaptations and life forms found nowhere else on the planet.

The Antarctic landscape is dominated by immense ice shelves, towering glaciers, and majestic mountain ranges, sculpted over millennia by the relentless forces of nature. Beneath the frozen surface, the Southern

Ocean teems with an astonishing diversity of marine life, from microscopic phytoplankton to colossal blue whales, forming the foundation of the Antarctic food web.

Despite its remote and hostile environment, the Antarctic ecosystem thrives with resilience and ingenuity. Adapted to extreme cold and darkness, Antarctic organisms have evolved remarkable survival strategies, from the antifreeze proteins of Antarctic fish to the cryptic camouflage of Weddell seals. Yet, this fragile ecosystem faces unprecedented challenges in the wake of climate change and human activities.

36. What are some characteristics of the Antarctic continent mentioned in the passage?

- (A) Its lush vegetation and temperate climate
- (B) Its frozen landscapes and severe weather conditions
- (C) Its volcanic activity and tropical rainforests
- (D) Its arid deserts and sand dunes
- (E) Its dense population and urban development

37. What is unique about the Antarctic ecosystem?

- (A) It is the warmest continent on Earth.
- (B) It harbors a high concentration of human settlements.
- (C) It lacks any form of marine life.
- (D) It contains adaptations and life forms found nowhere else on the planet.
- (E) It experiences frequent volcanic eruptions.

38. What dominates the Antarctic landscape?

- (A) Dense forests and lush vegetation
- (B) Gigantic ice shelves and towering glaciers
- (C) Expansive deserts and sand dunes
- (D) Tropical rainforests and meandering rivers
- (E) Sprawling urban centers and industrial complexes

39. How does the Southern Ocean contribute to the Antarctic ecosystem?

- (A) It is devoid of any marine life.
- (B) It serves as a breeding ground for Arctic species.
- (C) It harbors bedrock of the Antarctic food chain.
- (D) It experiences rapid desertification.
- (E) It is heavily polluted by industrial waste.

40. From the passage, what can be inferred about the Antarctic wilderness?

- (A) It lacks complexity in its ecosystem.
- (B) It is easily understood by scientists.
- (C) It is characterized by its resilience.
- (D) It is a well-explored region.
- (E) It experiences mild weather conditions.

Questions 41 to 45

Artificial Intelligence (AI) stands as the pinnacle of human ingenuity, representing the culmination of decades of research and innovation in the realm of computer science and cognitive psychology. AI systems, powered by advanced algorithms and neural networks, possess the remarkable ability to simulate human intelligence, learning, and problem-solving in ways previously thought unimaginable.

At the forefront of AI research is the development of deep learning algorithms, inspired by the structure and function of the human brain. These algorithms, fueled by massive datasets and computational power, enable machines to recognize patterns, process natural language, and make decisions with astonishing accuracy and efficiency. From image recognition and speech synthesis to autonomous vehicles and

背面有題，請繼續作答。

medical diagnosis, the applications of deep learning span a myriad of domains, revolutionizing industries and transforming the way we live and work.

One of the most exciting advancements in AI is the emergence of Generative Adversarial Networks (GANs), a groundbreaking framework for generating synthetic data with unprecedented realism. GANs consist of two neural networks—a generator and a discriminator—locked in a constant battle of wits, where the generator strives to produce indistinguishable data from real samples, while the discriminator aims to differentiate between real and fake data. This adversarial training process results in the creation of lifelike images, videos, and audio recordings that blur the line between reality and simulation.

In addition to GANs, AI researchers are exploring the potential of reinforcement learning, a technique inspired by behavioral psychology and operant conditioning. Reinforcement learning algorithms learn to make decisions by interacting with an environment, receiving feedback in the form of rewards or penalties based on their actions. Through trial and error, these algorithms improve their decision-making abilities over time, mastering complex tasks such as playing video games, optimizing logistics, and controlling robotic systems.

Despite the remarkable progress in AI, significant challenges remain on the horizon. Ethical considerations surrounding AI governance, transparency, and bias mitigation are hotly debated topics, raising concerns about the societal impact and ethical implications of AI-powered systems. Additionally, the pursuit of artificial general intelligence (AGI), a hypothetical form of AI that exhibits human-like intelligence across a wide range of tasks, poses profound philosophical and existential questions about the nature of consciousness and the future of humanity.

In the midst of these challenges, the potential of AI to reshape the fabric of society and accelerate human progress is undeniable. By harnessing the power of AI responsibly and ethically, we can unlock unprecedented opportunities for innovation, discovery, and societal advancement.

41. What is Artificial Intelligence (AI) and what does it represent?
 - (A) A complex computer program; the culmination of human ingenuity in computer science and cognitive psychology.
 - (B) A simple system; the end of research and innovation in computer science and cognitive psychology.
 - (C) A sophisticated technology; the beginning of research and innovation in computer science and cognitive psychology.
 - (D) A basic tool; the end of human ingenuity in computer science and cognitive psychology.
 - (E) A primitive concept; the beginning of human ingenuity in computer science and cognitive psychology.
42. What are Generative Adversarial Networks (GANs) and how do they work?
 - (A) A framework for generating synthetic data; by using two neural networks
 - (B) A network for generating real data; by using one neural network
 - (C) A system for analyzing data; by using multiple neural networks
 - (D) A tool for storing data; by using advanced algorithms
 - (E) A method for classifying data; by using statistical techniques
43. What is reinforcement learning and what tasks can it perform?
 - (A) A technique inspired by cognitive psychology; it can play video games.
 - (B) A method for optimizing logistics; it can control robotic systems.
 - (C) A framework for making decisions; it can interact with an environment.
 - (D) A strategy inspired by psychology; it can master complex tasks.
 - (E) A concept from artificial intelligence; it can receive feedback.

44. According to the passage, what are some of the hurdles that AI encounters?
- (A) Moral considerations and bias alleviation
 - (B) Legal regulations and government oversight
 - (C) Technological limitations and computational constraints
 - (D) Economic disparities and workforce displacement
 - (E) Environmental sustainability and energy consumption
45. What is the potential of AI according to the passage?
- (A) To facilitate incremental advancements and maintain the status quo
 - (B) To spur human growth and unlock unprecedented opportunities for innovation
 - (C) To create new barriers to technological advancement and hinder societal development
 - (D) To enhance human capabilities and foster greater collaboration between humans and machines
 - (E) To lead to societal stagnation and impede future growth

Questions 46-50

In the realm of emergency medicine, resuscitation stands as a pivotal procedure, aiming to restore vital functions in individuals experiencing cardiac arrest or other life-threatening events. This intricate process involves a series of interventions, each carefully timed and tailored to the patient's condition. Central to resuscitation efforts is cardiopulmonary resuscitation (CPR), which consists of chest compressions to maintain blood flow to vital organs and artificial ventilation to ensure oxygenation. Immediate initiation of CPR, often accompanied by defibrillation to restore normal heart rhythm, is crucial in maximizing the chances of successful outcomes. However, resuscitation extends beyond the initial moments of crisis, encompassing ongoing monitoring, adjustment of treatment strategies, and coordination among multidisciplinary healthcare teams.

Advancements in medical technology have revolutionized resuscitative care, offering new tools and techniques to improve patient outcomes. Mechanical CPR devices, for instance, provide consistent and high-quality chest compressions, reducing the risk of fatigue and enhancing perfusion. Extracorporeal membrane oxygenation (ECMO) serves as a temporary life support system, oxygenating blood and removing carbon dioxide when conventional methods fail. Moreover, innovative approaches such as targeted temperature management aim to mitigate neurological damage following cardiac arrest, enhancing long-term neurological recovery.

Despite these advancements, resuscitation remains a complex and dynamic field, shaped by ongoing research, clinical experience, and ethical considerations. Questions surrounding end-of-life care, quality of life outcomes, and decision-making in the face of uncertainty underscore the need for a holistic approach to resuscitative care. Collaborative efforts among healthcare providers, policymakers, and the public are essential in ensuring that resuscitation practices align with patient preferences, cultural beliefs, and societal values. By continually striving to improve resuscitative care, we uphold the principles of beneficence, autonomy, and compassion, guiding our actions in the pursuit of saving lives and preserving human dignity.

46. What is the primary goal of resuscitation in emergency medicine?
- (A) To administer medications to stabilize the patient
 - (B) To perform surgical interventions to address underlying issues
 - (C) To restore vital functions in individuals experiencing cardiac arrest
 - (D) To provide psychological support to patients and their families
 - (E) To coordinate with multidisciplinary teams for long-term care

47. Which intervention is central to resuscitation efforts?
- (A) Airway management
 - (B) Fluid resuscitation
 - (C) Oxygen therapy
 - (D) Cardiac compression
 - (E) Medication administration
48. What is one advantage of mechanical CPR devices mentioned in the passage?
- (A) They enhance the effectiveness of drug delivery compared to manual CPR.
 - (B) They optimize the timing of defibrillation during resuscitation efforts.
 - (C) They mitigate exhaustion and guarantee uniform chest compressions.
 - (D) They offer a user-friendly interface suitable for untrained individuals.
 - (E) They provide a cost-effective alternative to conventional CPR methods.
49. What is the purpose of targeted temperature management in resuscitation?
- (A) To regulate blood flow during cardiac arrest
 - (B) To prevent post-resuscitation complications
 - (C) To address neurological issues after cardiac arrest
 - (D) To maintain cardiac stability during resuscitation
 - (E) To improve respiratory function during CPR
50. According to the passage, what underscores the need for a holistic approach to resuscitative care?
- (A) Concerns regarding terminal care and moral deliberations
 - (B) The integration of cutting-edge medical advancements
 - (C) The frequency of cardiac arrest occurrences in the general population
 - (D) The requirement for elaborate surgical procedures in resuscitation
 - (E) Patient inclination towards unconventional medical treatments