

國立中山大學 106 學年度碩士暨碩士專班招生考試試題

科目名稱：英文【醫科所碩士班】

題號：428001

※本科目依簡章規定「不可以」使用計算機(混合題)

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一、單選選擇題 (每題三分):

1. Many people often _____ outside the restrooms of an office area to gossip about their coworkers. Therefore, it is often the most crowded area of an office.
(A) congregate (B) combine (C) leverage (D) emerge
2. The vast range of makeup products that women find commonplace is instead very often _____ and confusing for men.
(A) beginning (B) brainstorming (C) bewildering (D) compelling
3. Our native language is often called our mother _____.
(A) home (B) land (C) tongue (D) nature
4. Wearing uniforms is still _____ in most schools in Taiwan.
(A) tertiary (B) mandatory (C) sanctuary (D) stationary
5. I have only gone scuba diving once before, so I would consider myself a _____.
(A) naive (B) professional (C) novice (D) native
6. As part of their _____ routine, the mechanical department conducts maintenance inspections on factory equipment.
(A) normality (B) normally (C) normal (D) normalize
7. Gift certificates will be given to those _____ complete Oriang Health Spa's service survey by July 18.
(A) who (B) they (C) what (D) theirs
8. The company has grown so much that it is running out of _____ and will need to move to a bigger office.
(A) area (B) land (C) room (D) location
9. Many students at the institute have complained that they find it challenging _____ their tests within the given time limits.
(A) finishing (B) finished (C) to finish (D) have finished
10. Winners of this year's literary contest will be announced _____ in both the print and online versions of the publication *Literatura*.
(A) persuasively (B) officially (C) truthfully (D) exceedingly
11. Upon close inspection, the two patterns are indeed _____, but the differences are so minute that they are hardly noticeable at first.
(A) analytical (B) asymmetrical (C) ambidextrous (D) analogue
12. _____ has recently become a disease with young children as now many of them eat fast foods and unhealthy snacks often.
(A) Obesity (B) Diabetes (C) Parkinson's (D) High-blood pressure
13. The torrential rain, which lasted nearly a week, caused _____ damage to the countryside of Essex.
(A) impossible (B) expeditious (C) irresistible (D) preliminary
14. It is not surprising that it took me so long to discover the extent of my own miseducation, because the last thing an elite education will teach you is its own _____.

背面有題

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(A) mitigation (B) distinction (C) calibre (D) inadequacy

15. _____ -- the interaction of the student with learning courses on a computer -- will accelerate education.

- (A) Self-directed learning (B) Self-directing learning
(C) Self-directed learned (D) Self-directing learned

16-18

Subject: Bread and cupcake orders

Date: April 1

Dear Mr. Yang,

We have received the follow-up letter about your orders for next week. I sent an e-mail to our main branch to inform them about the 16 you made. They will supply you with all the baked items you required for your business. The main branch verified your orders on Sunday and notified us that they 17 them on Monday morning. We are confident 18 your customers will be more than satisfied once they sample our products. We look forward to continuing to serve you.

Sincerely,

Tristan Beach

16. (A) policies (B) requests (C) improvements (D) presentations
17. (A) delivered (B) has delivered (C) will deliver (D) was delivering
18. (A) what (B) which (C) them (D) that

19-20

Date: December 1

Hello everyone,

The finance department is completing a budget proposal for next year. The proposal will be discussed at ADT Bank's yearly planning meeting in January. In connection with this, we request that you submit the budget estimates for your respective branches within the week.

In particular, we need your recommended salary adjustments as well as your estimated expenses for supplies and equipment. As agreed in the last meeting, your budget proposals should meet the standards provided by the finance department. Please turn in the documents no later than December 8.

19. What is the e-mail mainly about?

- (A) A proposed project
(B) A submission deadline
(C) The schedule of conference activities
(D) The promotion of an employee

20. According to the e-mail, what is the finance department's role in budget planning?

- (A) Assigning accounting consultants to branches
(B) Updating the shareholders on company income
(C) Soliciting price quotations from suppliers
(D) Setting guidelines for estimating expenses

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二、翻譯題 (英翻中):

1. Circulating tumor cells (CTC) are key early indicators of metastasis, which is the process by which cancer cells move from one organ group in the body to another. Once cancer spreads, the prognosis is generally not good. So, early identification of CTCs can help prevent them from creating new colonies of malignant cells. Researchers at Worcester Polytechnic Institute (WPI) in Massachusetts have developed a new approach to microfluidics to detect CTCs in blood. The WPI researchers believe that their technique could form the basis of a simple lab test for quick detection of early signs of metastasis and help physicians select treatments targeted at the specific cancer cells identified. (15 分)

2. Healing of cutaneous wounds involves regeneration of surface epidermis and repair of connective tissues. Re-epithelialization precedes repair in the dermis and accelerates the process of wound healing. It also provides early re-establishment of a functional barrier, which is vital in the prevention of excessive transepidermal water loss and infection. Therefore, re-epithelialization is considered a primary step in cutaneous wound healing. Various types of tissue engineered scaffolds have been developed and used for engineering epidermis. Ideally, these scaffolds should exhibit certain biological features (i.e., to support keratinocyte adhesion, proliferation, and differentiation) and possess appropriate mechanical and degradation properties. Mechanical properties of the scaffolds have been identified as a key modulator in keratinocyte behavior with increased cell adhesion and proliferation on stiffer substrates with compressive moduli of around 100 kPa. The scaffolds should also be sufficiently strong and elastic for facile handling during surgery and for supporting natural movements of the tissues. Additionally, such scaffolds should ideally degrade only after adequate healing, which could take more than 8 weeks. Furthermore, for some clinical applications, the scaffolds are required to be rapidly crosslinked in situ, allowing for optimal molding toward the wound contour. (10 分)

3. The U.S. Food and Drug Administration (FDA) has approved a genetically engineered virus to treat patients with advanced melanoma. Among innovative treatments for cancer therapy, virotherapy represents a class of promising cancer therapeutics, with viruses from several families currently being evaluated in clinical trials. Most clinical trials of virotherapy have treated patients via intratumoral injection. However, one of the most important technical solutions needed for clinical virotherapy is enhanced systemic delivery. Achieving efficacious and accurate systemic delivery will greatly broaden opportunities in virotherapy. Significant developments in technological solutions improving delivery, potency, and purity for virotherapy have given rise to recent success. Specificity in viral delivery however will greatly enhance therapeutic gains. (15 分)

