

國立臺灣科技大學 112 學年度碩士班招生試題

系所組別：工業管理系碩士班甲組、乙組、丙組
科 目：英文

[1. 總分 100 分 2. 選擇題務必於答案卷內依序作答，否則不予計分]

I. Vocabulary 30% (2% each question) Choose the best word(s) to complete each sentence.

1. My professor is a person who I _____.
(A) look into. (B) look up (C) look up to (D) look after
2. Theater tickets are _____ after 19:00.
(A) premiered (B) discounted (C) nominated (D) promoted
3. Her department is _____ for overseeing the councils.
(A) response (B) responsibility (C) respond (D) responsible
4. It took a lot of _____ to stand up and criticize the chairman.
(A) audience (B) authenticity (C) authority (D) audacity
5. The new policy would force companies to _____ energy-saving measures.
(A) adapt (B) adept (C) adopt (D) adjoin
6. Any _____ library fines must be paid before you can graduate.
(A) outstanding (B) outperforming (C) outgoing (D) outdated
7. Mega Health Club, which recently opened in the downtown area, is _____ to its members' requests.
(A) interested (B) concerned (C) responsive (D) respective
8. ABC company has specialized in dairy products for a long time, but now it is time to _____ its product range.
(A) verify (B) diversify (C) converge (D) concede
9. The clients from Jason & Jackson Co. arrived _____ at the office to sign the contract with us.
(A) punctually (B) gradually (C) primarily (D) thoroughly
10. With a 20% decrease in the workforce, the company is now _____ dramatic changes.
(A) looking over (B) doing good (C) replying to (D) going through
11. It is important to be _____ of the assistance you get from your coworkers.
(A) comprehensive (B) subjective (C) appreciative (D) inspired
12. When we receive instructions from headquarters, we will act _____.
(A) readily (B) accordingly (C) frequently (D) equally
13. Office Yard has a(n) _____ variety of office furniture and supplies that you need when you start a new business.
(A) wide (B) significant (C) indifferent (D) representative
14. Please _____ the labels on the package so that they can be delivered by express mail service.
(A) transport (B) launch (C) drape (D) affix
15. Our financial records will be _____ by the government officials during the audit.
(A) scrutinized (B) delegated (C) bypassed (D) abstained



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II. Grammar 30% (2% each question) Choose the best answer to complete each sentence.

1. Gill and Gina look totally different. They _____ be identical twins.
 (A) can't (B) can (C) should (D) shouldn't
2. I have checked the flight schedule. The flight to London _____ at 18.00 tomorrow.
 (A) arrive (B) would arrives (C) is going to arrive (D) arrives
3. I _____ the test if I had studied hard.
 (A) would pass (B) would have passed (C) had passed (D) will pass
4. It is essential to take a _____ break to relax your body and mind.
 (A) period (B) periodic (C) periodically (D) periodicals
5. The government is considering _____ vehicles from the city center to relieve congestion.
 (A) to ban (B) been banned (C) banning (D) banned
6. We wanted to know when _____.
 (A) they are thinking of getting married.
 (B) they been thinking of getting married.
 (C) they were thinking of getting married.
 (D) they have been thinking of getting married.
7. Everyone _____ by the surge in the number of COVID-19 cases in the last quarter.
 (A) was surprised (B) surprised (C) surprises (D) is surprising
8. Sara had a good performance review _____ her sales numbers were lower than her colleagues'.
 (A) due to (B) in spite of (C) despite (D) even though
9. The president commanded that the troops _____ from the country.
 (A) retreating (B) to retreat (C) retreat (D) retreated
10. We _____ much positive feedback about our old product, but the new formula is really successful.
 (A) aren't used to get (B) weren't used to get (C) don't use to getting (D) didn't use to get
11. _____ under normal clothes, a thermal layer keeps you warm in minus temperatures.
 (A) Wearing (B) Having wearing (C) Worn (D) Having been worn
12. The selling point of this newly launched product is on practicality _____ price.
 (A) except for (B) rather than (C) as in (D) instead
13. Who _____ the newspapers about the prime minister's plans? It _____ someone close to him.
 (A) told / must have been (C) told / must be
 (B) telling / must have been (D) is telling / must be
14. The cost of food in the US is rising _____ the fastest pace since the 1970s, _____ grocery prices up 13.5% in the 12 months to September.
 (A) on / with (B) in / on (C) up / on (D) at / with
15. By 2025, Web3 technologies _____ the world of commerce, in much the same way that Web2 transformed access to information.
 (A) will revolutionize (C) will have revolutionized
 (B) revolutionize (D) will be revolutionized



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III. Reading Comprehension 30% (2% each question)

Read the following passages and select the best answer for each question.

Questions 1-5 refer to the passage below.

Dear Airline Representative,

I would like to file a complaint. My flight was supposed to arrive in London on Monday morning. A seat was booked for me by my company. Shockingly, my seat was given to another passenger. As a result, my original schedule was delayed and I had to fly the following day. Two business meetings were forced to be canceled because of this mistake. My boss and our clients were extremely furious, and we have wasted a lot of time. To make up the situation, I worked all night to catch up. Under such kind of circumstances, I expect your company to refund my flight expense, as well as a letter of apology.

Thomas Harrods

1. Who was Thomas writing to?

(A) His clients	(C) The airline company
(B) The flight attendant	(D) His supervisor
2. What happened to Thomas?

(A) He was unable to make a booking online.
(B) His connecting flight was canceled without notice.
(C) His seat was given away.
(D) He could not arrive in London on Sunday night.
3. Who booked the flight for Thomas?

(A) Himself	(B) His colleague	(C) His friend	(D) His travel agent
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4. When did Thomas get to fly?

(A) Later that day	(C) Two days later
(B) The next day	(D) Follow the original schedule
5. Which of the following is **NOT** what Thomas want in this letter?

(A) An apology.
(B) To claim for his own right.
(C) To make up the business meetings.
(D) The compensation for his flight ticket.



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Questions 6-10 refer to the passage below.

How solar power is lighting up a continent

The renewable energy industry in Africa is seeing huge growth. Until recently the majority of homes as well as many hospitals and schools in Africa did not have access to electricity, but things are now beginning to change.

The problem has forced many African entrepreneurs, as well as large companies, to think outside the box and come up with innovative projects. These range from things like solar lanterns and radios to larger projects such as mobile kiosks providing solar charging facilities.

Despite the lack of easily accessible energy, it is not unusual to see people in rural communities with mobile phones and other hi-tech gadgets that need charging. The mobile kiosk solves that problem. Another area of development is solar panels and storage units, which can be installed in individual homes. Now these gadgets can be charged regularly and families can use lighting when it is dark.

Another successful innovation is pay-as-you-go renewable energy for villages which are far away from the national electricity grid. Currently these households often use kerosene (a fuel oil) for lighting and open fires for cooking, both of which can be inefficient and dangerous. For example, families using kerosene lamps often suffer from sore eyes and headaches because of the fumes from the burning oil.

Firewood has been used as a fuel in Africa for thousands of years and has contributed greatly to the loss of forests across the continent, causing huge environmental problems such as poor soil.

Another interesting idea that one entrepreneur has developed is an office table which includes a power bank, (a kind of battery) for mobile devices. It means that students or business people can use their tablets or laptops for twenty-four hours without the need to recharge them. Other ideas from around the world include solar-powered systems to change seawater into drinking water and solar water irrigation systems for farmers to water their crops. So, as cooking fires and kerosene lamps disappear, Africa is lighting up more brightly and, at the same time, benefiting from healthier living conditions.

6. In the first paragraph we learn that
- (A) there is no power in African hospitals.
 (B) the renewable energy industry is valued by the local government.
 (C) the global energy industry is growing.
 (D) over fifty percent of African homes have no electricity.
7. To solve the energy problem, entrepreneurs
- (A) have to be more creative. (C) use portable lights for charging.
 (B) use mobile charging kiosks. (D) need to cooperate.



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8. What do we learn about kerosene?
 (A) Most people use it for cooking. (C) It is the most popular source of energy.
 (B) It can damage a person's health. (D) People can purchase it at a cheaper price.
9. The article says the office table
 (A) charges mobile devices for a day. (C) comes with built-in computers.
 (B) takes a whole day to re-charge. (D) provides mobile devices
10. The last paragraph states that
 (A) farmers will use seawater to water their crops.
 (B) kerosene lamps are getting brighter.
 (C) there is an innovation that makes seawater safe to drink.
 (D) healthier living conditions are vital in Africa.



Questions 11-15 refer to the passage below.

Out of road: driverless vehicles are replacing the trucker

Ramona Saucedo has been on the road for nearly two months, and she's ready to get back home. Standing in front of her truck in the parking lot of a truck stop, she's waiting for a call from her business partner, who is checking on her progress. If she stays on schedule, driving 10 or 11 hours a day, she'll be back home next week.

At 52, Saucedo has been driving long-haul for nearly a decade. It's a job that runs in the family: her father and brother were both truck drivers, and Saucedo says she started driving mainly for the pay. At her old job as an office worker, she had to scrape and scrounge if one of her two children needed some money. Now, she drives thousands of miles a week all over the country, sleeping inside the truck. Money is no longer a problem.

At the truck stop, Saucedo is surrounded by hundreds of drivers in a similar situation. The United States has more than three million truck drivers, many of whom drive long-haul, or 'over the road' as it's known in the business. It's one of the highest paying jobs available that does not require a college degree, but its future is increasingly uncertain.

As the sun sets, the parking lot starts filling up with drivers stopping for the night. Sleeping in the truck is part of the job. 'I call this my "tiny house",' grins Patrick Spicer, 67, a long-haul driver from Reno, as he shows off the inside of his new 2017 Kenworth T680. There are bunk beds, a cupboard for clothes and a refrigerator for food.

Spicer has been driving for 20 years. 'If you are smart and don't waste your money, you can make a good living,' he says. But he's not optimistic about what's ahead. 'There is no future in trucking,' he says. 'In 10 or 15 years, these vehicles will all be self-driving trucks. There is no way to stop it.'

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In San Francisco, Stefan Seltz-Axmacher, 27, is one of the people trying to take the humans out of the truck. Sitting in the driver's seat of a truck he has modified, he leans forward and adjusts a pair of robotic feet that rest over the brake and accelerator pedals. Underneath the steering wheel is a small motor that can steer the vehicle. These devices, along with radar and cameras fixed on the exterior, allow the truck to be driven remotely by a human in congested city areas. Once it is on the open highway, the truck can drive itself.

Seltz-Axmacher is the co-founder of Starsky Robotics, a small start-up working on self-driving trucks. The U.S. trucking industry moves more than 10 billion tons of freight a year so his market is already made. 'We would lease the robots to the trucking companies,' he explains. 'We are able to go to people who are already looking for drivers, and be their driver.'

11. Ramona Saucedo decided to become a truck driver because
 - (A) her family run a trucking business.
 - (B) she didn't enjoy being an office worker.
 - (C) she didn't earn enough in her previous job.
 - (D) her children encouraged her
12. In the United States
 - (A) truck drivers need to have a college degree.
 - (B) over three million truck drivers earn good money.
 - (C) truck driving is the highest paid job for women.
 - (D) truck driving is a promising industry.
13. What does Spicer say about the future?
 - (A) Human drivers will no longer be needed.
 - (B) He plans to drive for another 20 years.
 - (C) He's looking forward to a future in it.
 - (D) Autopilot will be advancing without stopping.
14. Stefan Seltz-Axmacher
 - (A) apprehends the importance of self-driving trucks on the highway.
 - (B) has taken out the brake and accelerator pedals from his truck.
 - (C) says congested cities use cameras to monitor trucks.
 - (D) believes that he can replace humans in trucks.
15. The trucking market in the States
 - (A) is already buying robots to drive trucks.
 - (B) is popular among some small start-ups.
 - (C) has leased many self-driving vehicles
 - (D) is extensive and ready for business.



IV. Writing 10%

Opinion Writing:

Please write a **150-200 word** paragraph on the following topic.

Sustainability: A long-term approach to the affordable and clean energy