

## 經濟部所屬事業機構 112 年新進職員甄試試題

類 別：全部類別

科 目：共同科目（國文、英文）

壹、國文：

寫作題目：自 2022 年 ChatGPT 問世以來，人工智慧（以下簡稱 AI）例如：機器人、聊天軟體、無人機等等，快速發展，不論任何領域均可看到 AI 被加速引進或全力研發。AI 的運用與發展，改變了企業原有的運作方式，員工也將面對一個嶄新的工作環境；因此分析 AI 對工作帶來什麼影響？進而思考應以什麼樣的態度、行為、或能力強化來因應，進而運用 AI 提升自己在企業裡的競爭力尤為重要。請以「國營事業員工如何面對 AI 浪潮之我見」撰寫論文一篇。

【擬答】：

國營事業員工如何面對 AI 浪潮之我見

隨著科技的日行千里，在資訊極速發達的今天，諸多的人工智慧（Artificial Intelligence，簡稱 AI）之科技已進入到各項事業及人們的生活中，世界各國皆致力於對此大幅度發展，可想見在未來的運用層面將更廣泛。其中，國家公務人員、各階層經濟從業者，乃至於各級學校，勢必首當其衝，非但以此解決經常面對的實質問題，並且自我要求與時俱進。運用人工智慧的電腦網絡超越原本的服務項目及既有成就，達到更便利、更迅捷的實用性。準此，身為國營事業員工當對此有一定認知，並培植素養，才能造就多元而便捷的服務層面。

簡言之，人工智慧（AI）指的是能模仿人類的智慧執行任務的系統及機器，可根據被服務者之需求，不斷地調整指令、控制、支援與改善。AI 的類型五花八門，具體而言，其重點在於超級思維與數據分析的過程和能力。雖然隨著廣泛運用會讓人憚於功能齊全的機器人將佔領絕大多數的工作，即如題意所言「AI 的運用與發展，改變了企業原有的運作方式，員工也將面對一個嶄新的工作環境」，但人工智慧的出現絕非為了取代人類現有之自身技能，其主要宗旨在大幅提高人類的能力，多樣而實效地為日常層面做出貢獻，尤其在繁複的大數據分類及工作比對方面，具有取代人力不夠精細之窘況，洵然具備極高價值的商業實務作用。

進一步而論，儘管 AI 可為人們打造無可限量的未來，然並非所有族群對此齊備充分概念，以致其潛力尚未詳加發揮。這方面問題在很大程度上乃由於人們缺乏效率的工作流程，抑或憚於有心人士以此從事智慧型犯罪。然而，對於希望提高效率、創造新的獲利機會及提高顧客忠誠度的企業而言，採用人工智慧絕對是必要的策略決策。AI 正迅速成為許多組織的競爭優勢。有了人工智慧，企業可以在更短的時間內完成更多任務，打造個人化且強而有力的顧客體驗並預測業務成效，從而提高獲利能力。倘公務人員以此為工作基礎之一，勢將做出更多巨量且完整之服務。目前，它是一項全新技術，高度極為複雜，欲充分發揮功效，需有建構及管理大規模 AI 解決方案的專業知識。惟當採用正確的工具、實施正確的流程並採取正確的管理策略，才能確保 AI 能成功。至於防止以此為非作歹，造成金融業之損失，則需立法保護運用此項最新科技正確之方，及對出現非正當使用之異狀作嚴格篩檢，以戢止因科學發達所帶來之後遺症。

總之，讓「人工智慧」實現的重要因素，便是時間及認知觀念，此二者會讓人們慢慢的認識新興世界，有人的夢因不堪各項打擊而消失，但更有人明解夢想之所在，全力投入於夢工程（人工智慧）的建設。知識與智慧的力量是無窮的，從古至今，一切文明的產物，都是此二者之結晶；我們當繼往開來，讓前人的知識更加累積，個人的智慧更為豐碩，藉由此項新科技為人類的永續生存奠定無可動搖之磐石。此非但是國營事業員工之責，亦當是全體公務人員無可推諉之使命。

貳、英文：

一、字彙

- (A) 1. The famous scientist lost all \_\_\_\_\_ once his fabricated data came to light.  
(A)credibility (B)credence (C)credulity (D)credo
- (B) 2. Nicole's \_\_\_\_\_ that she had stolen the money had shocked everyone.  
(A)adjustment (B)admission (C)admittance (D)adoption
- (D) 3. Public \_\_\_\_\_ to the problem of litter has left the city's park in a total mess.  
(A)disbelief (B)dispute (C)fastidiousness (D)indifference
- (C) 4. The cars are \_\_\_\_\_ in price, but far apart in terms of performance.  
(A)communicative (B)compact (C)comparable (D)compassionate
- (B) 5. No new business can succeed without hard-working and \_\_\_\_\_ employees.  
(A)compatible (B)competent (C)complacent (D)complimentary
- (C) 6. In a laboratory, it is important to be \_\_\_\_\_ when measuring substances.  
(A)potential (B)peculiar (C)precise (D)primary
- (A) 7. The \_\_\_\_\_ for setting the drinking age at 18 is that self-control and good judgement are still being developed before that age.  
(A)rationale (B)recession (C)retort (D)revulsion
- (D) 8. A microscope can \_\_\_\_\_ a cell and make it large for our eyes to see.  
(A)modify (B)maintain (C)mislead (D)magnify
- (D) 9. The \_\_\_\_\_ child was found safe after a week-long search, but the criminal demanded \$1 million in exchange for the child.  
(A)invested (B)defeated (C)performed (D)kidnapped
- (C) 10. This country's military \_\_\_\_\_ near the border have raised concerns about a possible invasion, despite the claim to test their readiness of the armed forces.  
(A)outskirts (B)wardrobes (C)maneuvers (D)parameters

二、文法及慣用語

- (A) 11. The doctor \_\_\_\_\_ the patient's cancer for several months now, and the patient is responding well to the treatment.  
(A)has been treating (B)has been treated (C)is treating (D)treats
- (C) 12. This year, only two applicants joined the job interview, but \_\_\_\_\_ of the candidates was qualified for the job.  
(A)both (B)either (C)neither (D)all
- (D) 13. There are lots of cover-ups in the business world, \_\_\_\_\_ involve fraud and corruption.  
(A)one of them (B)some of them (C)one of which (D)some of which
- (D) 14. Dell was struggling \_\_\_\_\_ the demands of his boss.  
(A)to keep up (B)to keep down (C)to keep in (D)to keep up with
- (B) 15. The keys to happier marriage include not \_\_\_\_\_ change from your spouse.  
(A)demand (B)demanding (C)to demand (D)by demanding
- (C) 16. It is intriguing to travel in foreign lands \_\_\_\_\_ cultures are different from our own.  
(A)with (B)which (C)whose (D)what
- (A) 17. \_\_\_\_\_ have any questions, please do not hesitate to contact us.  
(A)Should (B)Would (C)Could (D)Will

(D) 19. If you have something to say about his notorious behavior, \_\_\_\_\_. It is no use to complain to me.

(A) 20. entering the concert hall, I noticed that refreshments were being served.

(D) 21. Only if the arrogant man sees the world through the eyes of a child \_\_\_\_\_ truly appreciate natural beauty.

(B) 22. Though Abby may seem like a simple person when you first meet her, there's more to her

(A)than meet the eyes (B)than meets the eye (C)then meets the eye (D)yet meets the eye

(A) 23. That restaurant managed to survive the pandemic .

(A) one way or another      (B) by no means

(C) in no way (D) at all

(C) 24. “My son doesn’t mind fruit, but vegetables are a whole different story.” That means

(A) My son doesn't like fruit, but he likes vegetables.

(B) My son doesn't like either fruit or vegetables.

(C)My son eats fruit but not vegetables.

(D) My son doesn't eat fruit, but he eats vegetables.

(B) 25. “Tyler is no less intelligent than his brother” means the same as “Tyler is his brother.”

(A)more stupid than      (B)as smart as      (C)sharper than      (D)as stupid as

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## 三、克漏字

Jane and Philip are in general a happily married couple; however, they do struggle over one point of \_\_ (26) \_\_. They disagree as to how their family should follow the traditions of seasonal holidays. In her opinions, the emphasis \_\_ (27) \_\_ presents has made the season lucrative for all those mercenary retailers who overcharge at holiday time. In addition, people should be watching their expenses and avoid unnecessary \_\_ (28) \_\_ in their budgets. Therefore, she aspires to keep her home free of all such customs and wants her children to \_\_ (29) \_\_ from traditions such as gift-giving and dyeing Easter eggs. Although Philip understands her concerns, he prefers the conventional way of celebrating holidays. He believes that children enjoy the customary \_\_ (30) \_\_ that are connected with the holidays.

- |                    |              |              |               |
|--------------------|--------------|--------------|---------------|
| (A) 26. (A)dissent | (B)relief    | (C)deficit   | (D)harmony    |
| (B) 27. (A)at      | (B)on        | (C)by        | (D)of         |
| (C) 28. (A)wealth  | (B)surplus   | (C)shortfall | (D)adequacy   |
| (D) 29. (A)desire  | (B)affiliate | (C)prompt    | (D)abstain    |
| (D) 30. (A)burdens | (B)sections  | (C)downers   | (D)activities |

Memorizing information is something we all need to do. There are \_\_ (31) \_\_ ways to improve our memory, one of which is known as mind-mapping. A mind map is like a \_\_ (32) \_\_ of thoughts, starting from a single idea, and spreading \_\_ (33) \_\_ to new ideas, showing the connections between them. The theory behind it is that by drawing the map on paper, we are made to \_\_ (34) \_\_ the information clearly. Later as we look at the mind map again and again, we \_\_ (35) \_\_ our knowledge of the information and then memorize it.

- |                       |               |             |              |
|-----------------------|---------------|-------------|--------------|
| (C) 31. (A)vulnerable | (B)inevitable | (C)various  | (D)identical |
| (B) 32. (A)drill      | (B)diagram    | (C)frontier | (D)machine   |
| (C) 33. (A)inside     | (B)over       | (C)outward  | (D)downward  |
| (D) 34. (A)minimize   | (B)isolate    | (C)schedule | (D)visualize |
| (A) 35. (A)reinforce  | (B)reverse    | (C)reward   | (D)terminate |

## 四、閱讀測驗

Ocean waves represent our planet's last untapped large-scale renewable energy resource. Over 70% of the earth's surface is covered with water. The energy contained within waves has the potential to produce up to 80,000 TWh ( $10^{12}$  watt-hours) of electricity per year-sufficient to meet our global energy demand five times over.

No wonder the idea of extracting energy from ocean waves and turning it into electricity is an alluring one. The first serious attempt to do so dates back to 1974, when Stephen Salter of Edinburgh University came up with the idea of “ducks”: house-sized buoys tethered to the sea floor that would convert the swell into rotational motion to drive generators. It failed, as have many subsequent efforts to perform the trick.

But the idea of wave power will not go away, and the latest attempt-the brainchild of researchers at Oscilla Power, a firm based in Seattle-is trying to address head-on the reason why previous efforts have foundered.

This reason, according to Rahul Shendure, the firm's boss, is that those efforts took technologies developed for landlubbers (often as components of wind turbines) and tried to modify them for marine

use.

The consequence was kit too complicated and sensitive for the rough-and-tumble of life on the ocean waves, and also too vulnerable to corrosion. Better, he reckons, to start from scratch.

Instead of generators with lots of moving parts, Oscilla is developing ones that barely move at all.

These employ a little-explored phenomenon called magnetostriction. in which ferromagnetic materials (things like iron, which can be magnetized strongly) change their shape slightly in the presence of a magnetic field. Like many physical processes, this also works in reverse. Apply stresses or strains to such a material and its magnetic characteristics alter. Do this in the presence of permanent magnets and a coil of wire, such as are found in conventional generators, and it will generate electricity.

(B) 36. What are NOT true about ocean waves?

- (A) They can be turned into electricity.
- (B) Stephen Salter successfully used “ducks” to convert them into electricity.
- (C) There have been attempts to convert them into electricity.
- (D) Oscilla Power is one of the firms to convert them into electricity.

(A) 37. What is true about Oscilla Power?

- (A) It is based in Seattle.
- (B) Its boss is Stephen Salter.
- (C) It adopts a similar approach to other previous efforts.
- (D) It copies some of the previous designs.

(D) 38. What are true about Oscilla's generators?

- (A) They have many moving parts.
- (B) They move along with the waves.
- (C) They do not have coils of wire.
- (D) The phenomenon magnetostriction is employed.

(C) 39. What are the advantages of ocean wave energy?

- (A) It's easily available. (B) It's easily tapped.
- (C) It's renewable. (D) It can be recycled.

(B) 40. Why had the previous ocean wave energy conversion efforts failed?

- (A) Because they all relied on buoys.
- (B) Because they were vulnerable to corrosion.
- (C) Because they were not modified for marine use.
- (D) Because they were not tethered to the sea floor.



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