# 國立中正大學 114 學年度碩士班招生考試

# 試 題

# [第4節]

科目名稱	管理資訊系統
系所組別	資訊管理學系-甲組

#### -作答注意事項-

- ※作答前請先核對「試題」、「試卷」與「准考證」之<u>系所組別、科目名稱</u>是否相符。
- 1. 預備鈴響時即可入場,但至考試開始鈴響前,不得翻閱試題,並不得書寫、書記、作答。
- 2. 考試開始鈴響時,即可開始作答;考試結束鈴響畢,應即停止作答。
- 3.入場後於考試開始 40 分鐘內不得離場。
- 4.全部答題均須在試卷(答案卷)作答區內完成。
- 5.試卷作答限用藍色或黑色筆(含鉛筆)書寫。
- 6. 試題須隨試卷繳還。

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#### Multiple choice questions (60%, 3 points per question)

- 1. What process involves creating a detailed specification of the tasks a new information system is expected to perform?
  - A) Feasibility study
  - B) Systems design
  - C) Test plan development
  - D) PERT chart
  - E) Requirements analysis
- 2. Which decision-making tool would be most useful for building a recommendation engine for a website with over a million visitors each month?
  - A) Big Data analytics
  - B) Sensitivity analysis
  - C) Goal seeking
  - D) Forecasting
  - E) Simulation
- 3. As the CEO of a national clothing retail chain planning to open three new locations, which tool would be most helpful for identifying the most profitable sites?
  - A) Pivot tables
  - B) Sensitivity analysis
  - C) GIS
  - D) Prediction analytics
  - E) Intelligent agent
- 4. Which of the following statements about machine learning is *incorrect*?
  - A) Spotify utilizes machine learning to tailor playlists for its users.
  - B) Expert systems are a type of machine learning.
  - C) Machine learning primarily focuses on identifying patterns in data and classifying inputs into known and unknown outputs.
  - D) Many Big Data analytics tools employ machine learning.
  - E) Most current machine learning involves supervised learning methods.
- 5. What method is primarily used for uncovering patterns in data when no specific instructions are provided about what to look for?
  - A) Genetic algorithm
  - B) Intelligent agent
  - C) Deep learning neural network
  - D) Supervised learning neural network
  - E) Computer vision system
- 6. In the context of digital marketplaces:
  - A) Search costs tend to be higher.
  - B) Menu costs are generally lower.

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- C) Disintermediation is less common.
- D) Network effects are less significant.
- E) Information asymmetry increases.
- 7. Compared to traditional physical goods, digital goods typically have:
  - A) Lower per-unit marginal production costs.
  - B) Higher delivery expenses.
  - C) Greater ongoing production expenses.
  - D) Increased inventory costs.
  - E) Higher marginal costs overall.
- 8. How do personalization and customization differ in the context of e-commerce technologies?
  - A) Customization occurs when the user adjusts a product, while personalization is when a business adapts a product or service for the user.
  - B) Personalization occurs when the user adjusts a product, while customization is when a business adapts a product or service for the user.
  - C) Customization involves tailoring marketing messages for a consumer, while personalization adapts a product or service to user preferences.
  - D) Personalization involves tailoring marketing messages for a consumer, while customization adapts a product or service to user preferences.
  - E) There is no distinction; both terms involve modifying a product or communication for the consumer.
- 9. Which of the following exemplifies the advertising revenue model?
  - A) eBay earns a fee from a seller only if the item is sold.
  - B) Yelp receives a payment after directing a customer to a partner website where a purchase is made.
  - C) Facebook provides a free social platform but includes sponsored content in users' feeds.
  - D) Apple collects a fee for movie downloads.
  - E) Netflix charges a subscription fee for access to its movie library.
- 10. Leveraging the Internet to target niche audiences with products of low demand is an example of:
  - A) Clickstream advertising.
  - B) Behavioral targeting.
  - C) Online profiling.
  - D) Long-tail marketing.
  - E) Crowdsourcing.
- 11. BMW engaged its customers in designing a future urban vehicle for 2025. This strategy exemplifies:
  - A) Prediction markets.
  - B) Behavioral targeting.
  - C) Long-tail marketing.
  - D) Social shopping.
  - E) Crowdsourcing.
- 12. Enterprise systems improve management decision-making in many ways except:
  - A) Offering real-time data on sales, inventory, and production.

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- B) Providing more precise sales and production forecasts.
- C) Enhancing predictions about customer behavior.
- D) Standardizing data definitions and formats globally.
- E) Evaluating the profitability of various products.
- 13. Uncertainty in supply chain management may arise from all of the following except:
  - A) Delayed deliveries from suppliers.
  - B) Rising inventory levels across tiers.
  - C) Faulty raw materials or components.
  - D) Disruptions in the manufacturing process.
  - E) Variations in customer demand.
- 14. A supply chain strategy based on predicted consumer demand aligns with which model?
  - A) Pull-based
  - B) Build-to-stock
  - C) Push-based
  - D) Replenishment-driven
  - E) Optimized
- 15. The bullwhip effect can be minimized by:
  - A) Embracing globalization.
  - B) Eliminating intermediaries.
  - C) Adopting CRM systems.
  - D) Reducing uncertainty in shared information.
  - E) Differentiating products.
- 16. The measurement of the percentage of customers who discontinue using or purchasing a company's products or services is known as:
  - A) Switching costs.
  - B) Churn rate.
  - C) CLTV.
  - D) Switch rate.
  - E) Turnover percentage.
- 17. Which of the following statements regarding Big Data is *incorrect*?
  - A) Big Data exclusively refers to datasets in the petabyte range.
  - B) Big Data enables the discovery of more patterns and relationships compared to smaller datasets.
  - C) Big Data is generated at a faster pace and in much larger volumes than traditional datasets.
  - D) Big Data is increasingly utilized in the public sector.
  - E) The characteristics of Big Data are often summarized by the 3Vs: volume, variety, and velocity.

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- 18. In data mining, which process involves identifying patterns that determine an item's group by analyzing existing items and deriving rules?
  - A) Associations
  - B) Sequences
  - C) Classifications
  - D) Clustering
  - E) Forecasting
- 19. A website that uses cookies to monitor its visitors does so by:
  - A) Saving the cookie on the website's server.
  - B) Storing the cookie on the user's device.
  - C) Keeping the cookie on the ISP's servers.
  - D) Saving the cookie in the browser's settings.
  - E) Discarding the cookie once the visitor exits the site.
- 20. When retailers are forced to compete directly against manufacturers on price and inventory availability, it is referred to as:
  - A) Disintermediation
  - B) Localization
  - C) Channel conflict
  - D) Hypermediation
  - E) Product standardization

#### Short-answer questions (40%)

- 1. Big Data and Artificial Intelligence are reshaping the way modern businesses operate and develop competitive strategies. Generative AI (e.g., ChatGPT, DALL E) has become a key focus of recent technological applications:
- (1) Please explain how businesses can integrate data analytics technologies (e.g., machine learning, deep learning) and AI systems to improve decision-making quality and operational efficiency in the following two areas. Support your arguments with specific examples:
  - (a) Customer Relationship Management (CRM) (10%)
  - (b) Supply Chain Management (SCM) (10%)
- (2) Generative AI is rapidly being applied to marketing, content creation, and customer interactions. Please address the following questions:
  - (a) Provide examples of how generative AI (e.g., text generation, image generation) can be utilized in business marketing. (10%)
- (b) What *challenges* might generative AI applications bring to businesses? Explain how these challenges can be mitigated through technology or policy. (10%)