

國立中正大學 109 學年度碩士班招生考試試題

科目名稱：計算機概論

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系所組別：會計與資訊科技學系-乙組

考生作答須知：

1. 可使用中、英文作答，但字跡請務必工整，勿潦草
2. 作答時請明確標示題號
3. 選擇題皆為單選題；問答題皆為簡答題

第一部分：選擇題，每題 2 分，共 40 分

1. 公開金鑰基礎建設主要是針對下列哪兩項應用設計？
 - a) 公開金鑰密碼學與對稱式密碼學
 - b) 非對稱式加碼與雜湊函數
 - c) 對稱式密碼學與雜湊函數
 - d) 對稱式密碼學與數位簽章
 - e) 公開金鑰密碼學與數位簽章
2. Google Wallet 採用什麼技術提供手機電子商務？
 - a) QR Code
 - b) iBeacon
 - c) RFID
 - d) NFC
 - e) Barcode
3. 請問國際會計準則 IFRS 所使用的財務報表表示語言為何？
 - a) XML
 - b) HTML
 - c) PHP
 - d) JAVA
 - e) XBRL
4. 下列何者可以提供有效 IP 位址分派工作？
 - a) ATM
 - b) 4G
 - c) DNS
 - d) DHCP
 - e) Wi-Fi
5. 美國 SEI 學院的軟體開發程序成熟度框架 CMMI 將成熟度分成幾級？
 - a) 10

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- b) 7
 - c) 4
 - d) 3
 - e) 2
6. 在 1' complement 表示法下，二進制數值的(1111)代表何值？
- a) 0
 - b) -1
 - c) 7
 - d) 15
 - e) Overflow
7. 將十進位制的(229)與(182)做 XOR 運算後，以八進位制(octal)表示之結果為何？
- a) (123)
 - b) (152)
 - c) (423)
 - d) (214)
 - e) (324)
8. During the virtual memory process, the operating system moves data to a temporary storage area on the hard drive call the_____ file.
- a) SWAP
 - b) Virtual
 - c) RAM
 - d) Memory
9. A_____ is a subject-oriented, integrated, time-variant, nonvolatile collection of data in support of management's decision-making process.
- a) Fat client
 - b) Back-end processor
 - c) Thin client
 - d) Data warehouse
10. The Institute of Electrical and Electronics Engineers' standard for Wi-Fi is the_____ standard.
- a) 1220.3
 - b) 802.11
 - c) 402.33
 - d) 601.01

11. What is another name for the physical address assigned to each network adapter?
- a) Media Access Control
 - b) Network Access Control
 - c) Network Physical Address
 - d) Physical Address Control
12. If electronic toll pass records are used as evidence in a divorce case, this would raise questions regarding:
- a) Personal privacy
 - b) Free speech
 - c) Fair use
 - d) Social justice
13. If an individual created a set of songs that imitated the style and lyrics of songs from Disney's The Lion King, this would be an issue dealing with:
- a) Copyright
 - b) Censorship
 - c) Social justice
 - d) Personal privacy
14. Machine language is said to be machine-dependent because it is dependent on the:
- a) Source code
 - b) Processor
 - c) Hard drive
 - d) Version of memory
15. A collection of components organized into a functioning whole is known as:
- a) System
 - b) Life cycle
 - c) Bike
 - d) Application program

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16. What is the situation in which two or more database users are each waiting to use resources that are held by the others?
- a) Commit
 - b) Deadlock
 - c) Data fragmentation
 - d) Transaction sharing
17. In the entity-relationship model, what kind of entity will you use to implement a many-to-many relationship?
- a) Weak entity
 - b) Independent entity
 - c) Composite entity
 - d) Dependent entity
18. In the design of a relational database, the normalization process enables you to identify the existence of what potential problems?
- a) Concatenation
 - b) Illegal determinants
 - c) Incorrect decomposition
 - d) Update anomalies
19. Which one of the following is not the feature of a DBMS?
- a) Relationship transparency
 - b) Failure transparency
 - c) Fragmentation transparency
 - d) Heterogeneity transparency
20. After the database designers complete the information-level design, the DBA does what level design?
- a) Graphical
 - b) Logical
 - c) Information
 - d) physical

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第二部分：問答題，共 60 分

1. If you want Unix to remember where you were and take you back to that location, what commands will you use? (5%)
2. What is process migration? List five reasons for executing process migration (10%)
3. What the functionality of Address Resolution Protocol is? (5%)
4. What is heap overflow attack? (5%)
5. What is the K-means algorithm? (5%) Please describe an example for the application of this algorithm (5%)
6. What is machine learning? (5%) what can machine learning does for the Accounting domain? (5%)
7. What does DDoS means? (5%)
8. Term Frequency-Inverse Document Frequency(TFIDF) and Latent Dirichlet Allocation (LDA) are both well-known text mining techniques. Please describe the definitions (10%)

