



**CCIII - Introduction to Computer**

## ***Final Examination***

1<sup>st</sup> Semester

December 11-13, 2024

**Name:** \_\_\_\_\_ **Year /Section:** \_\_\_\_\_ **Score:** \_\_\_\_\_

General Instructions:

1. Write all your answers in the space provided.
2. Write neatly and legibly.
3. Erasure or change of answer in any way is strictly not allowed

Test 1: Multiple Choice: ( 100 points)

Direction: Read each question carefully, and write the letter of your answer in the space provided

- \_\_\_\_\_ 1. What is the primary function of a storage device?
- a) To process data                      b. To input data  
b) To output data                        d. To store data and instructions
- \_\_\_\_\_ 2. What is the core component of an operating system that manages memory and devices?
- a) Device driver                          c) User interface  
b) Kernel (**Answer: b**)                d) Application software
- \_\_\_\_\_ 3. How does virtual memory help improve system performance?
- a) By increasing the physical RAM  
b) By using a portion of the hard disk as additional RAM  
c) By speeding up the CPU clock speed  
d) By optimizing the cache memory
- \_\_\_\_\_ 4. What is a Trojan horse?
- a) A physical security device  
b) A type of computer hardware  
c) A malicious program disguised as legitimate software  
d) A network protocol
- \_\_\_\_\_ 5. How does a hard disk store data?
- a) By using electrical charges        b) By using optical lasers  
c) By using magnetic particles        d) By using chemical reactions
- \_\_\_\_\_ 6. You need to run multiple programs simultaneously on your computer. Which type of operating system would be most suitable?
- a) Single-user, single-tasking        b) Single-user, multitasking  
c) Multi-user, single-tasking         d) Multi-user, multitasking
- \_\_\_\_\_ 7. Which of the following best describes a retail enterprise?
- a) Provides legal advice and representation to clients.  
b) Manufactures large quantities of products for sale  
c) Offers educational programs and instruction.  
d) **Owens multiple stores and sells goods at a discount due to bulk purchases.**
- \_\_\_\_\_ 8. What is a firewall?
- a) A hardware or software barrier that protects a network  
b) A type of antivirus software  
c) A network cable  
d) A data storage device
- \_\_\_\_\_ 9. Business Intelligence (BI) helps managers make better business decisions. Which of the following activities is most closely associated with BI?
- a) Manually entering sales data into a spreadsheet.  
b) Providing basic reports on employee performance.  
c) **Analyzing large datasets to identify trends and patterns.**  
d) Sending mass marketing emails to all customers.
- \_\_\_\_\_ 10 What are the potential risks of using pirated software?
- a) Legal issues  
b) Security vulnerabilities  
c) Performance issues  
d) All of the above

- \_\_\_\_\_ 11. **How does a worm spread?**  
a) By attaching itself to other files  
b) By exploiting vulnerabilities in network systems  
c) By tricking users into opening infected files  
d) All of the above
- \_\_\_\_\_ 12. **Why is it important to keep your operating system and utility programs up-to-date?**  
a) To improve performance  
b) To enhance security  
c) To access new features  
d) All of the above
- \_\_\_\_\_ 13. **What are the potential risks of using pirated software?**  
a) Legal issues  
b) Security vulnerabilities  
c) Performance issues  
d) All of the above
- \_\_\_\_\_ 14. **What is the purpose of a RAID system?**  
a) To increase storage capacity  
b) To improve data reliability and fault tolerance  
c) To speed up data transfer rates  
d) To reduce the cost of storage
- \_\_\_\_\_ 15 **What is phishing?**  
a) A technique used to steal personal information by disguising as a legitimate entity  
b) A type of network attack that floods a system with traffic  
c) A malicious program that damages computer systems  
d) A method of encrypting data
- \_\_\_\_\_ 16 **You receive an email from an unknown sender with an attachment. What should you do?**  
a) Open the attachment immediately  
b) Delete the email without opening the attachment  
c) Forward the email to your IT department  
d) Call the sender to verify the email
- \_\_\_\_\_ 16 **Your computer is running slowly and you suspect it may be infected with malware. What steps can you take to address the issue?**  
a) Run a virus scan  
b) Update your antivirus software  
c) Avoid downloading files from untrusted sources  
d) All of the above
- \_\_\_\_\_ 17. **What is the primary function of an antivirus program?**  
a) To speed up computer performance  
b) To compress files  
c) To protect against malicious software  
d) To create backups
- \_\_\_\_\_ 18. **Business Process Automation (BPA) aims to reduce the need for human intervention. What potential negative consequence of BPA should also be considered? Which of the following best describes a retail enterprise?**  
a) Provides legal advice and representation to clients.  
b) Manufactures large quantities of products for sale.  
c) Offers educational programs and instruction.  
d) Owns multiple stores and sells goods at a discount due to bulk purchases
- \_\_\_\_\_ 19. **How does a firewall protect a computer from unauthorized access?**  
a) By scanning for viruses  
b) By monitoring network traffic and blocking suspicious activity  
c) By encrypting data  
d) By deleting malicious software
- \_\_\_\_\_ 20. **Why is it important to keep your operating system and software up-to-date?**  
a) To improve performance  
b) To enhance security  
c) To access new features  
d) All of the above
- \_\_\_\_\_ 21. **How can you protect your important data from accidental loss or damage?**  
a) By regularly backing up your data  
b) By formatting your hard disk  
c) By deleting unnecessary files  
d) By defragmenting your hard disk

- \_\_\_\_\_ 22. Which of the following is a key benefit of an Enterprise-wide System?
- a) Reduced need for IT support.
  - b) Increased hardware costs.
  - c) Improved data consistency and accessibility across the organization.
  - d) Increased complexity in system management
- \_\_\_\_\_ 23 What is the primary role of a Decision Support System (DSS)?
- a) To automate routine tasks.
  - b) To manage day-to-day operations.
  - c) To support decision-making by providing analytical tools and data.
  - d) To track customer interactions.
- \_\_\_\_\_ 24. What are the potential consequences of a cyberattack on a business?
- a) Financial loss
  - b) Reputation damage
  - c) Data breaches
  - d) All of the above
- \_\_\_\_\_ 25. What is the primary function of a communication channel?
- a) To send data
  - b) To receive data
  - c) To transmit data
  - d) All of the above
- \_\_\_\_\_ 26. How does a web browser work?
- a) It sends requests to a server and displays the received HTML content.
  - b) It directly accesses the internet and displays web pages.
  - c) It stores web pages locally for faster access.
  - d) It translates code into machine language.
- \_\_\_\_\_ 27. What is the difference between Wi-Fi and Bluetooth?
- a) Wi-Fi has a longer range than Bluetooth.
  - b) Bluetooth has a longer range than Wi-Fi.
  - c) Wi-Fi is primarily used for data transfer, while Bluetooth is for audio.
  - d) Bluetooth is primarily used for data transfer, while Wi-Fi is for audio.
- \_\_\_\_\_ 28. Why is network security important?
- a) To protect sensitive information
  - b) To prevent unauthorized access
  - c) To ensure network reliability
  - d) All of the above
- \_\_\_\_\_ 29. Which technology has had the most significant impact on global communication?
- a) Telephone
  - b) Internet
  - c) Satellite
  - d) Telegraph
- \_\_\_\_\_ 30. What is the purpose of encryption?
- a) To speed up data transfer
  - b) To compress data
  - c) To protect data from unauthorized access
  - d) To recover lost data
- \_\_\_\_\_ 31. Which of the following is a wireless communication technology?
- a) Ethernet cable
  - b) Fiber optic cable
  - c) Bluetooth
  - d) Coaxial cable
- \_\_\_\_\_ 32. How does a web browser work?
- a) It sends requests to a server and displays the received HTML content.
  - b) It directly accesses the internet and displays web pages.
  - c) It stores web pages locally for faster access.
  - d) It translates code into machine language.
- \_\_\_\_\_ 33. You need to conduct a virtual meeting with colleagues in different locations. Which technology would be most suitable?
- a) Email
  - b) FTP
  - c) Video conferencing
  - d) SMS
- \_\_\_\_\_ 34 Why is network security important?
- a) To protect sensitive information
  - b) To prevent unauthorized access
  - c) To ensure network reliability
  - d) All of the above
- \_\_\_\_\_ 35. What is the primary function of a modem?
- a) To amplify signals
  - b) To convert digital signals to analog signals and vice versa
  - c) To store data
  - d) To control network traffic
- \_\_\_\_\_ 36. Which type of network connection provides a constant, high-speed connection to the internet?
- a) Dial-up
  - b) DSL
  - c) Cable
  - d) All of the above

- \_\_\_\_\_ 37 **What is the role of a router in a network?**  
a) To connect devices within a network      b) To amplify network signals  
c) To filter incoming and outgoing traffic      d) To store data
- \_\_\_\_\_ 38. **What is the significance of bandwidth in network performance?**  
a) It determines the speed at which data can be transmitted.  
b) It measures the distance between network devices.  
c) It refers to the number of devices connected to a network.  
b) It indicates the reliability of a network connection
- \_\_\_\_\_ 39. What is the value of the binary number 10101101 when converted to decimal?"  
a. 193      b. 173      c. 183      d. 103
- \_\_\_\_\_ 40. **How can you improve the security of your home network?**  
a) Use strong passwords for your Wi-Fi network  
b) Keep your network devices and software up-to-date  
c) Use a firewall to protect your network  
d) All of the above
- \_\_\_\_\_ 41. **Which of the following is a key benefit of an Enterprise-wide System?**  
a) Reduced need for IT support.  
b) Increased hardware costs.  
c) Improved data consistency and accessibility across the organization.  
d) Increased complexity in system management.
- \_\_\_\_\_ 42. **You need to store a large number of high-resolution photos. Which storage medium would be most suitable?**  
a) A CD-ROM      b) A DVD-ROM  
c) A Blu-ray disc      d) A USB flash drive
- \_\_\_\_\_ 43. **What is the value of the octal number 675 when converted to binary?**  
a. 10101010101      C.0110111011  
b. 11101010111      d.110111101
- \_\_\_\_\_ 44. **What is the value of the hexadecimal number 34F when converted to decimal?**  
a. 875      b. 847      c. 957      d. 748
- \_\_\_\_\_ 45. **How can you prevent data loss from an optical disc?**  
a) By storing the disc in a hot, humid environment  
b) By exposing the disc to direct sunlight  
c) By storing the disc in a jewel case and avoiding scratches  
d) By writing on the label of the disc with a permanent marker
- \_\_\_\_\_ 46. **Your computer is running slowly and you suspect it may be infected with malware. What steps can you take to address the issue?**  
a) Run a virus scan  
b) Update your antivirus software  
c) Avoid downloading files from untrusted sources  
d) All of the above
- \_\_\_\_\_ 47 **Why is it important to have a strong password?**  
a) To prevent unauthorized access to your accounts  
b) To protect your personal information  
c) To avoid identity theft  
d) All of the above
- \_\_\_\_\_ 48 **Which type of network connection would be best for a small business that needs a reliable and high-speed internet connection?**  
a) Dial-up      b) DSL      c) Cable      d) Fiber optic
- \_\_\_\_\_ 49 **How does a dial-up connection differ from a broadband connection?**  
a) Dial-up connections are faster and more reliable.  
b) Broadband connections are slower and less reliable.  
c) Dial-up connections use a traditional telephone line, while broadband connections use a dedicated line.  
d) There is no difference between the two.
- \_\_\_\_\_ 50. **How can you protect your privacy online?**  
a) Use strong, unique passwords  
b) Be cautious about sharing personal information online  
c) Use privacy settings on social media  
d) All of the above

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