DO NOT WRITE ON TEST

BUSINESS PROFESSIONALS of AMERICA
Giving Purpose to Potential

INFORMATION TECHNOLOGY CONCEPTS ~OPEN EVENT~

(391)

REGIONAL 2023

TOTAL POINTS   **_____100 Points**

Test Time: 60 minutes

Directions: Identify the letter of the choice that *best* completes the statement or answers the question.

1. What does HDMI stand for when referring to an HDMI cable?
   A. Hyper-Defined Multimedia Input
   B. High-Defined Multimedia Interface
   C. High-Definition Multimedia Interface
   D. High-Quality Defined Multimedia Interface

2. What does VGA stand for when referring to a VGA cable?
   A. Visual Graphics and Audio
   B. Video Graphics Array
   C. Visual Graphics Array
   D. Visual Guiding Array

3. What does DVI stand for when referring to a DVI cable?
   A. Digital Visual Interface
   B. Demanding Visual Integrator
   C. Digital Video Integrator
   D. Demanding Visual Interface

4. What does DP stand for when referring to a DP cable?
   A. Digital Port
   B. Display Port
   C. Digital Prong
   D. Display Prong

5. Which of the following contains data amounts listed from smallest to largest?
   A. Kilobyte, Megabyte, Gigabyte, Terabyte
   B. Megabyte, Kilobyte, Terabyte, Gigabyte
   C. Gigabyte, Terabyte, Kilobyte, Megabyte,
   D. Kilobyte, Gigabyte, Megabyte, Terabyte

6. Side effects of virus infection can vary. Which of the following is most likely NOT caused by a virus?
   A. Error messages
   B. Pop-up windows
   C. Web searches randomized
   D. Headphones aren't outputting audio

7. The ____ has higher-level permissions than a standard account and has more command over tasks allowed on Windows computer.
   A. Proxy Account
   B. Administrative Account
   C. LAN Account
   D. Warden Account

8. Which is the following is an example of a String variable?
   A. "Hello"
   B. 5.5
   C. 1
   D. true

9. Which is the following is an example of a float variable?
   A. "Hello"
   B. 5.5
   C. 1
   D. true

10. Which is the following is an example of a integer variable?
    A. "Hello"
    B. 5.5
    C. 1
    D. true

11. LANS are used for local area networks while ____ to link multiple LANs together to form a larger network.
    A. WAN
    B. BAN
    C. LLAN
    D. YAN

12. The information processing cycle contains stages. What is the correct order of data processing?
    A. Processing, Input, Output, Storage
    B. Processing, Input, Output, Storage
    C. Input, Processing, Output, Storage
    D. Input, Processing, Storage, Output

13. While slower than coaxial and fiber optic, satellite internet connections are ideal for which scenario?
    A. High rise apartment in a big city
    B. Suburb home of a populated area
    C. Remote cabin located in the wilderness
    D. Business in middle of town

14. Which IP version is 192.168.0.1?
    A. IPv2
    B. IPv4
    C. IPv6
    D. IPv8

15. Which of the following is an example of a MAC address?
    A. 168.212.226.204
    B. #a54f39
    C. 2C:54:91:88:C9:E3
    D. 18362.1256

16. Which Wi-Fi signal security protocol is the most secure to use?
    A. WEP
    B. WEP2
    C. WPA
    D. WPA2

17. Which of the following is the default IP that users can type into a browser to setup their router?
    A. 168.168.0.1
    B. 192.168.0.1
    C. 192.168.1.1
    D. 192.168.0.192

18. Which of the following is a peripheral device for a computer?
    A. Motherboard
    B. SSD
    C. Mouse
    D. RAM

19. How many bits are in 1 Byte?
    A. 4 bits
    B. 8 bits
    C. 16 bits
    D. 32 bits

20. Audio cables are typically labeled with a color designation. What color does green represent?
    A. Audio out
    B. Audio in
    C. Microphone in
    D. Microphone out

21. Audio cables are typically labeled with a color designation. What color does blue represent?
    A. Audio out
    B. Audio in
    C. Microphone in
    D. Microphone out

22. Which of the following runs at one billion cycles per second?
    A. MHz
    B. GHz
    C. KHz
    D. THz

23. BIOS assists in the start-up process for a computer. What does BIOS stand for?
    A. Battery Integration Operation Start
    B. Basic Initial Operation Start
    C. Basic Input Output System
    D. Basic Initial Operation System

24. Cloud storage can be used to access files through the internet. What is NOT an example of cloud storage?
    A. OneDrive
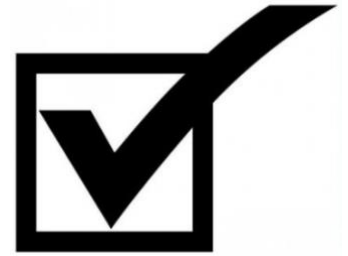   B. Google Drive
    C. Dropbox
    D. Thumb Drive

25. What does SSD stand for when referring to hardware?
    A. Solid Standard Drive
    B. Standard Solid Drive
    C. Solid State Drive
    D. Standardized State Drive

26. The Principal of Least Privilege states that users should be granted what privileges?
    A. Admin privileges for themselves
    B. Privileges needed only to completed task
    C. Admin privileges for themselves and other employees
    D. Admin privileges but only after taking a security exam

27. Which of the following is not an audio file type?
    A. aac
    B. wav
    C. m4a
    D. bmp

28. A markup language allows for users to format layouts and style text. Which of following is a markup language?
    A. HTML
    B. C++
    C. Java
    D. Python

29. The top of a top-down hierarchical structure of subdirectories is called which of the following?
    A. Base directory
    B. Top directory
    C. Sub-top directory
    D. Root directory

30. In order to keep the CPU cool, ___ is applied between the CPU and heat sink to dissipate the heat.
    A. Water gel
    B. Thermal paste
    C. Glue
    D. Coolant paste

31. The ___ feature allows devices, such as USBs, to work with other older USB devices.
  A. dual mounting
  B. backwards compatibility
  C. archiving
  D. terminal integrated

32. Which of the following action is the final step in the standard troubleshooting methodology?
  A. Document the solution and cause
  B. Create a new theory of cause
  C. Research the problem online
  D. Implement preventive measures

33. Which of the following is a value that uniquely identifies a database record?
  A. Foreign key
  B. Public key
  C. Primary key
  D. Private key

34. Which of the following statements best describes binary?
  A. A notational system used to represent media access control
  B. A notational system used to represent Internet protocol addressing
  C. A notational system used to represent an "on" or "off" state
  D. A notational system used to represent a storage unit of measurement

35. A UPS provides protection against what?
  A. Denial of service
  B. Replay attack
  C. Power outage
  D. Wiretapping

36. Which of the following best describes a kilobyte?
  A. Measurement of storage (100KB)
  B. Measurement of throughput (100Kbps)
  C. Measurement of power (100KW)
  D. Measurement of processor speed (2.4KHZ)

37. A company has created logo and they would like to ensure no other entity can use the logo for any purpose. Which one of the following should the company use to best protect the logo?
    A. Patent
    B. Copyright
    C. NDA
    D. EULA

38. Which of the following operating systems is available for free and can be modified by anyone?
    A. Windows
    B. Mac OS
    C. Chrome OS
    D. Linux

39. Which of the following software package types is designed to accept input from multiple users?
    A. Collaborative
    B. Utility
    C. Operating system
    D. Specialized

40. Which of the following printer types uses a powder-based consumable with a lower cost per page compared to other printers?
    A. Thermal
    B. Laser
    C. Dot matrix
    D. Inkjet

41. A user receives an email formatted to appear as if the bank sent it. The mail explains that the user must confirm the name, address, and social security number listed on the bank account. Which of the following best describes the security threat taking place?
    A. Shoulder surfing
    B. Social engineering
    C. Spam
    D. Phishing

42. When connecting a printer to a network, which of the following is needed to complete the process?
    A. Computer's name
    B. Subnet mask
    C. HTTP Port
    D. Fax number

43. Which one of the following are most likely to be configured during the initial setup of an OS on a basic workstation?
    A. Antivirus settings
    B. Email setup
    C. Localization settings
    D. Print configuration

44. An end-user has 16GB of RAM installed on a computer system. Which of the following describes why the OS only uses a maximum of 4GB of RAM?
    A. The operating system is 16-bit
    B. The computer has corrupted RAM
    C. The operating system is 32-bit
    D. The computer has a virus

45. Which of the following connectors is most often used to connect a computer to a network?
    A. RJ-11
    B. IDE
    C. eSATA
    D. RJ-45

46. A user's government identification number, birth date, and current address are considered which of the following?
    A. PIEN
    B. PIED
    C. PII
    D. PIS

47. On the bootup process a memory error notification is displayed on the monitor. Which of the following is the most likely explanation for this error?
    A. BIOS does not recognize the newly installed DIMM
    B. The new memory module operates at lower speed compared to the pre-existing DIMM
    C. The new memory module is overheating
    D. The RAM slot is dirty

48. The optical drive in a computer is no longer working. The PC user has decided to buy and install a new drive. Which optical drive variety can be purchased to allow the user to record the most data on a single disc?
    A. BR-D
    B. DVD-RW
    C. DVD+RW
    D. CD-ROM

49. A user with an outdated operating system is consistently browsing sensitive websites such as banking, email, and corporate intranets. The Internet browser of choice is one that has already lost patch support and is not updated anymore. Which of the following actions will remedy this situation?
    A. Uninstall all unused browser extensions and toolbars to help reduce risks
    B. Move to an alternate browser that still has consistent security update support
    C. Install multiple anti-malware and firewall products to harden the computing experience
    D. Convert the user's account to an admin level account, to provide better overall security

50. Which of the following describes sleep mode for a computer?
    A. No energy usage with session data stored in RAM
    B. Low energy using with session data stored in HDD/SSD
    C. No energy usage with session data stored on the HDD/SSD
    D. Low energy usage with session data stored in RAM

INFORMATION TECHNOLOGY CONCEPTS
~OPEN EVENT~
(391)
REGIONAL 2023

TOTAL POINTS   **_____100 Points**

Test Time: 60 minutes

1. C	26. B
2. B	27. D
3. A	28. A
4. B	29. D
5. A	30. B
6. D	31. B
7. B	32. A
8. A	33. C
9. B	34. C
10. C	35. C
11. A	36. A
12. D	37. B
13. C	38. D
14. B	39. A
15. C	40. B
16. D	41. D
17. B	42. B
18. C	43. C
19. B	44. C
20. A	45. D
21. B	46. C
22. B	47. B
23. C	48. A
24. D	49. B
25. C	50. D