

ICT Grade 12 Midterm Examinations

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1. **What is the primary function of an operating system?**
 - a) To manage hardware and software resources
 - b) To create web pages
 - c) To provide antivirus protection
 - d) To perform calculations
2. **Which of the following is a type of malware?**
 - a) Firewall
 - b) Antivirus
 - c) Trojan horse
 - d) Router
3. **What does HTTP stand for?**
 - a) Hypertext Transfer Protocol
 - b) Hyperlink Text Transfer Protocol
 - c) Hyper Transfer Text Protocol
 - d) Hypertext Transmission Protocol
4. **Which device is used to connect multiple computers in a network?**
 - a) Modem
 - b) Switch
 - c) Printer
 - d) Monitor
5. **Which programming language is primarily used for web development?**
 - a) Python
 - b) Java
 - c) HTML
 - d) C++
6. **What is the purpose of a database management system (DBMS)?**
 - a) To create user interfaces
 - b) To store and manage data
 - c) To perform mathematical calculations
 - d) To display graphics

7. **Which of the following is a cloud storage service?**

- a) Microsoft Word
- b) Google Drive
- c) Adobe Photoshop
- d) Notepad

8. **What is phishing?**

- a) A method of data encryption
- b) A technique used to gain sensitive information by pretending to be a trustworthy entity
- c) A type of network hardware
- d) A programming error

9. **What does CPU stand for?**

- a) Central Processing Unit
- b) Computer Personal Unit
- c) Central Program Unit
- d) Computer Processing Unit

10. **Which of the following is an example of an input device?**

- a) Monitor
- b) Keyboard
- c) Printer
- d) Speaker

11. **What does CPU stand for?**

- o A) Processing Unit Central
 - o B) Computer Personal Unit
 - o C) Centralized Power Unit
- o D) Control Program Unit

o **12. Which of the following is an example of an operating system?**

- o A) Microsoft Word
 - o B) Adobe Photoshop
 - o C) Windows 10
 - o D) Google Chrome

13. What is the primary function of RAM in a computer?

- ☐ A) Store data permanently
- ☐ B) Execute programs
- ☐ C) Store data temporarily
- ☐ D) Manage input/output operations

14. Which of the following protocols is used for secure data transmission over the Internet?

- ☐ A) HTTP
- ☐ B) FTP
- ☐ C) HTTPS
- ☐ D) SMTP

15. What does the term "cloud computing" refer to?

- ☐ A) Storing data on a local hard drive
- ☐ B) Running software applications on a remote server
- ☐ C) Using a computer in a weather-sensitive environment
- ☐ D) Sharing files through email

16. Which of the following is NOT a type of malware?

- ☐ A) Virus
- ☐ B) Worm
- ☐ C) Firewall
- ☐ D) Trojan

17. What is the main purpose of an IP address?

- a. ☐ A) To protect against viruses
- b. ☐ B) To identify a device on a network
- c. ☐ C) To store website data
- d. ☐ D) To speed up internet connections

18. In programming, what does 'syntax' refer to?

- a. ☐ A) The meaning of commands
- b. ☐ B) The structure and rules of writing code
- c. ☐ C) The speed of execution
- d. ☐ D) The type of programming language

19. What is the primary function of an operating system?

- o A) Run applications
- o B) Manage hardware resources
- o C) Provide internet access
- o D) Store user data

20. Which of the following is a programming language?

- a. A) HTML
- b. B) CSS
- c. C) Python
- d. D) SQL

21. What does 'URL' stand for?

- a. A) Uniform Resource Locator
- b. B) Universal Resource Link
- c. C) User Resource Locator
- d. D) Uniform Resource Link
- e.

22. Which storage device is known for its high speed?

- a. A) Hard Disk Drive (HDD)
- b. B) Solid State Drive (SSD)
- c. C) USB Flash Drive
- d. D) Optical Disc

23. What is the purpose of a database?

- a. A) To perform calculations
- b. B) To store and manage data
- c. C) To display graphics
- d. D) To control hardware

A

24. What type of network topology connects all devices to a central hub?

- a. A) Mesh
- b. B) Star
- c. C) Ring
- d. D) Bus

Answer: B) Star

25. What does 'VPN' stand for?

- a. A) Virtual Private Network
- b. B) Variable Public Network
- c. C) Verified Personal Network
- d. D) Virtual Protected Network

26. Which of the following best describes 'phishing'?

- a. A) A type of software bug
- b. B) A form of social engineering to steal personal information
- c. C) A method of securing networks

- d. D) A network performance issue

27. Which of the following is NOT a component of a computer?

- a. A) CPU
- b. B) RAM
- c. C) Router
- d. D) Hard Drive

28. What does HTTP stand for?

- a. A) Hypertext Transfer Protocol
- b. B) Hyperlink Transfer Protocol
- c. C) Hypertext Transmission Protocol
- d. D) Hyperlink Transmission Protocol

29. Which of the following is a type of network topology?

- a. A) Linear
- b. B) Hierarchical
- c. C) Star
- d. D) Circular

30. What is the purpose of a firewall?

- a. A) To manage data storage
- b. B) To prevent unauthorized access
- c. C) To speed up the internet connection
- d. D) To create backup copies of files

31. In SQL, what command is used to retrieve data from a database?

- a. A) GET
- b. B) SELECT
- c. C) FETCH
- d. D) PULL

32. Which programming construct is used to make decisions?

- a. A) Loop
- b. B) Function
- c. C) Conditional
- d. D) Variable

33. What does IoT stand for?

- a. A) Internet of Technology
- b. B) Internet of Things
- c. C) Interconnected Online Tools

d. D) Information of Tech

34. Which of the following is a type of malware?

- a. A) Firewall
- b. B) Antivirus
- c. C) Worm
- d. D) VPN

35. What is the main function of an operating system?

- a. A) To execute applications
- b. B) To manage hardware resources
- c. C) To provide internet access
- d. D) To create multimedia content

Demonstration:

35 Pts.

Create a Bootable Device Using CMD Commands

