

Q1. The main purpose of an algorithm is to: A) Store data permanently B) Provide step-by-step problem solving C) Increase hardware speed D) Design user interfaces Correct Answer: B

Q2. RAM is considered volatile memory because it: A) Stores data permanently B) Works only with internet C) Loses data when power is off D) Is slower than hard disk Correct Answer: C

Q3. Which software controls the booting process of a computer? A) Application software B) Compiler C) Firmware (BIOS/UEFI) D) Antivirus Correct Answer: C

Q4. The main advantage of object-oriented programming is: A) Faster internet B) Better memory usage C) Modular and reusable code D) Reduced hardware cost Correct Answer: C

Q5. Which of the following is NOT an operating system? A) Linux B) Windows C) macOS D) Google Chrome Correct Answer: D

Q6. Artificial Intelligence aims mainly to: A) Replace computers B) Make machines think like humans C) Increase storage capacity D) Improve internet speed Correct Answer: B

Q7. The primary function of a database is to: A) Design software B) Process graphics C) Store and manage data D) Control hardware Correct Answer: C

Q8. Which network device directs data between different networks? A) Switch B) Hub C) Router D) Repeater Correct Answer: C

Q9. Encryption is mainly used to: A) Speed up data transfer B) Protect data confidentiality C) Reduce file size D) Improve graphics quality Correct Answer: B

Q10. Which language is commonly used for web page structure? A) Python B) Java C) HTML D) C++ Correct Answer: C

Q11. Machine learning differs from traditional programming because it: A) Uses no data B) Learns patterns automatically C) Requires no hardware D) Has fixed outputs Correct Answer: B

Q12. The purpose of an IP address is to: A) Secure data B) Identify devices on a network C) Store web pages D) Encrypt messages Correct Answer: B

Q13. Which storage device generally has the fastest access speed? A) Hard Disk Drive B) Optical Disk C) Solid State Drive D) Pen Drive Correct Answer: C

Q14. Software bugs are mainly caused due to: A) Hardware failure B) Logical or coding errors C) Network issues D) Power supply problems Correct Answer: B

Q15. The role of an interpreter is to: A) Convert entire code at once B) Execute code line by line C) Design programs D) Store data Correct Answer: B

Q16. Which technology enables real-time video calls? A) Batch processing B) Cloud storage C) High-speed networking D) Data mining Correct Answer: C

Q17. Data backup is important mainly to: A) Improve performance B) Save internet data C) Recover data after loss D) Reduce storage size Correct Answer: C

Q18. Which of the following is an example of system software? A) MS Word B) Photoshop C) Windows OS D) Google Docs Correct Answer: C

Q19. Malware is software designed to: A) Improve system speed B) Protect data C) Harm or exploit systems D) Update applications Correct Answer: C

Q20. The main goal of cybersecurity is to: A) Increase profits B) Control users C) Protect systems and data D) Improve UI design Correct Answer: C