

International Cyber Olympiad

Sample Paper by Cyber Olympiad Foundation



Time: 60 Mins.

Class 10

Max. Marks: 100

Enrollment No.: School Name:.....

Instructions:-

- ◆ Total Questions - 50 (2 marks each). Use of electronic devices are not permitted.
- ◆ There will be negative marking (-1) for each incorrect answer or filling more than one circle for an answer. No marks will be awarded or deducted for unattempted questions.
- ◆ Rough work should be done in the space provided in the question paper.
- ◆ After completing the exam, hand over the **OMR sheet** to the invigilator.
- ◆ Read all the questions carefully before answering.

Q 1. Which of the following devices is used for displaying visual information on a computer?

- (a) Keyboard (b) Monitor (c) Mouse (d) Scanner

Q 2. What term describes a collection of interconnected computers that share resources and information?

- (a) Cybersecurity (b) Internet (c) Network (d) Firewall

Q 3. What is the main function of an internet modem?

- (a) To display web pages (b) To create web content
(c) To connect a computer to the internet (d) To print documents

Q 4. What is a computer peripheral?

- (a) An input or output device connected to a computer
(b) A type of computer network
(c) A computer screen
(d) A software application

- Q 5. Which of the following is live streaming platform?**
(a) VKontakte (b) Twitter (c) Rumble (d) Flipkart
- Q 6. Which software is used for creating and delivering presentations with slides?**
(a) Word processor (b) Database software
(c) Presentation software (d) Graphics software
- Q 7. What does ISP stand for?**
(a) Internet Service Provider (b) Internet Security Protocol
(c) Internet Search Provider (d) Internet Software Program
- Q 8. What is the purpose of a computer's sound card?**
(a) To protect against viruses (b) To create web pages
(c) To manage sound output and input (d) To store data
- Q 9. Which of the following is a cloud storage service?**
(a) Adobe After Effects (b) Photoshop (c) Dropbox (d) Both (a) and (b)
- Q 10. What does "Phishing" mean in the context of cybersecurity?**
(a) Catching fish in the sea
(b) An attempt to trick individuals into revealing sensitive information
(c) A type of computer virus
(d) A computer mouse
- Q 11. Which of the following is not an antivirus software?**
(a) AVG (b) Bitdefender (c) Kaspersky (d) SecuroServ
- Q 12. What is the purpose of two-factor authentication (2FA)?**
(a) To login directly using password
(b) To secure accounts by requiring two forms of verification
(c) To verify that the user is human
(d) To verify that the user is robot

- Q 13. What does AI stand for in the context of computer science?**
- (a) Automated Interaction (b) Artificial Intelligence
(c) Advanced Intelligence (d) Algorithmic Integration
- Q 14. Which of the following is not a subfield of AI?**
- (a) Machine Learning (b) Natural Language Processing
(c) Robotics (d) Data Encryption
- Q 15. What AI technology is used in self-driving cars to perceive and navigate their environment?**
- (a) Virtual Reality (VR) (b) Machine Learning
(c) Computer Vision (d) Speech Recognition
- Q 16. A decentralized, distributed and public digital ledger that is used to record transactions across many computers is known as:**
- (a) Artificial Intelligence (b) Virtual Reality (c) Deep Learning (d) Blockchain
- Q 17. Which of the following devices connect multiple networks together and route data between them?**
- (a) Router (b) Amplifier (c) Joystick (d) Server
- Q 18. Which networking protocol is commonly used for sending and receiving emails?**
- (a) HTTP (b) HTTPS (c) SMTP (d) DNS
- Q 19. What type of network topology connects all devices to a central hub or switch?**
- (a) Mesh (b) Star (c) Bus (d) Ring
- Q 20. Which device is responsible for converting digital data into analog signals for transmission over telephone lines?**
- (a) Modem (b) Router (c) Switch (d) Firewall
- Q 21. What is the full form of 'DNS'?**
- (a) Domain Network Service (b) Domain Network System
(c) Domain Name Service (d) Domain Name System

Q 22. What is a "packet" in networking?

- (a) A type of network cable (b) A network security device
(c) A unit of data transmitted over a network (d) A type of computer monitor

Q 23. A unique hardware address assigned to network devices is called _____.

- (a) IMEI Address (b) IMDB Address (c) MAC Address (d) All of these

Q 24. Which programming language is often used for building native mobile apps?

- (a) Java (b) Photoshop (c) PHP (d) Javascript

Q 25. What is the purpose of a loop in programming?

- (a) To print the code on the screen (b) To execute code repeatedly
(c) To create web pages (d) To compile the code

Q 26. _____ is the fastest super computer of the World.

- (a) Param 8000 (b) Super 8000 (c) Frontier (d) Fugaku

Q 27. What is an algorithm?

- (a) A type of computer virus (b) A manual for computer
(b) A step-by-step procedure (d) Maintenance for computer

Q 28. What does "IDE" stand for in the context of coding?

- (a) Interactive Development Environment (b) Integrated Development Editor
(c) Internet Development Engine (d) Intelligent Design Environment

Q 29. What is the purpose of debugging in programming?

- (a) To compile the code (b) To find and fix errors in code
(c) To translate the machine language (d) To display output of the code

Q 30. Bard is a popular AI based chatbot developed by which company?

- (a) Apple (b) OpenAI (c) Google (d) Microsoft

Q 31. Which of the following is the most popular search engine?

- (a) DuckDuckGo (b) Bing (c) Yahoo! (d) Google

Q 32. In web development, what is CSS used for?

- (a) Style web pages (b) To make website faster
(c) Data compilation (d) Displaying images

- Q 33. Which of the following should you NOT share on social media to protect your privacy?**
- (a) Vacation photos (b) Personal number (c) Movie quotes (d) Your pet's name
- Q 34. Which of the following is an example of a strong PIN or Password?**
- (a) 1234 (b) P@ssw0rd!2356 (c) xy9876 (d) 825aman
- Q 35. What is a backup in the context of data protection?**
- (a) A copy of data used for restoring information in case of loss or damage
(b) A program to make your computer run faster
(c) A program to protect your online privacy by encrypting internet traffic
(d) All of these
- Q 36. What is the purpose of a privacy policy on a website?**
- (a) To list the website's menu options
(b) To display advertisements
(c) To inform users about how their data is collected
(d) To display circulars
- Q 37. A file that stores information about your browsing activity is known as _____.**
- (a) Session (b) Token (c) Gateway (d) Cookie
- Q 38. What should you do if you receive a suspicious message from a friend's social media account?**
- (a) Ignore it (b) Click on any links in the message
(c) Report it and notify your friend (d) Post it on your own account
- Q 39. What is the primary purpose of biometric authentication?**
- (a) To create web pages
(b) To verify a person's identity using physical characteristics
(c) To send emails
(d) To build artificial intelligence systems
- Q 40. What does "https://" at the beginning of a website URL indicate?**
- (a) Secure connection (b) HTML (c) High-speed server (d) Home

- Q 41. Which of the following is an Indian technology company?**
(a) HP (b) Apple (c) Infosys (d) Google
- Q 42. The terms 'WannaCry, Petya and EternalBlue' sometimes mentioned in the news are related to.**
(a) Cyber Attacks (b) Cryptography
(c) Cryptocurrencies (d) Crypto Attacks
- Q 43. A popular ransomware attack that hit the computers across the World in May 2017:**
(a) Pepperfry (b) Jigsaw (c) Cryptolocker (d) Wannacry
- Q 44. Which of the following is a type of cyber attack?**
(a) Phishing (b) SQL Injections
(c) Brute-force Attack (d) All of these
- Q 45. Which country is the leading manufacturer of computer processors?**
(a) Japan (b) South Korea (c) China (d) Taiwan
- Q 46. Microsoft is a technology company founded by _____.**
(a) Bill Gates (b) Satya Nadella
(c) Paul Allen (d) Both (a) & (c)
- Q 47. When was Chandrayaan-3 launched?**
(a) 14 July 2023 (b) 23 August 2023
(c) 23 July 2023 (d) 14 August 2023
- Q 48. Which of the following is a type of cyber attack?**
(a) Phishing (b) SQL Injections
(c) Brute-force Attack (d) All of these
- Q 49. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph?**
(a) Mother (b) Aunt (c) Sister (d) Daughter
- Q 50. Nitin goes to the market for buying some fruits. If the cost of 6 apples and 3 bananas is Rs 43.50. But 5 apples and 7 banana costs Rs 61. How much does 1 banana and 1 apple cost together?**
(a) Rs. 8 (b) Rs. 9.75 (c) Rs. 10 (d) Rs. 11.25