



National Level Examination
NLE 2024

CYBER Grade 10

Subject Code:

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Total Questions: 50

Time: 1 hour

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

- All questions are compulsory.
- Read the instructions on the **ANSWER SHEET** and fill in your **NAME, CLASS** and **OTHER INFORMATION**.
- To mark your choice of answer by darkening the circles in the **ANSWER SHEET**, use a **BLUE/BLACK BALL PEN** only.
- You **MUST** record your answers on the **ANSWER SHEET** only.
- There are **50 MULTIPLE CHOICE QUESTIONS**. Use the information provided to choose the **BEST** possible answer among the four options. On your **ANSWER SHEET** fill in the circle that matches your answer.
- $\frac{1}{2}$ **MARK** will be deducted for every **WRONG ANSWER**.
- Return the **ANSWER SHEET** to the invigilator at the end of the examination.
- You are **NOT** allowed to use a calculator. You may use a ruler and spare paper for rough work.



This question paper contains a total of 50 questions divided into three sections - A, B and C.
Read the instructions carefully before attempting these questions.

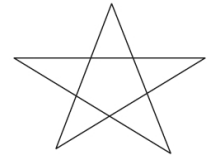
Section A (Logical Reasoning)

- If $a + b : a - b = 1 : 5$, then $a^2 - b^2 : a^2 + b^2$ equals _____.
 (A) 2 : 3 (B) 3 : 2
 (C) 5 : 13 (D) 13 : 5
- In the series, write the missing number.
 70, 71, 76, ____, 81, 86, 90, 91, 96
 (A) 70 (B) 71
 (C) 80 (D) 79
- Reptile is to lizard as flower is to _____.
 (A) Petal (B) Stem
 (C) Daisy (D) Alligator
- : _____.
 (A) (B)
 (C) (D)
- P is the son of Q while Q and R are the sisters to one another. T is the mother of R. If S is the son of T, which of the following statements is correct?
 (A) T is the brother of Q. (B) S is the cousin of P.
 (C) Q and S are sisters. (D) S is the maternal uncle of P.
- Radha moves towards South-east a distance of 7 km, then she moves towards West and travels a distance of 14 m. From here, she moves towards North-west a distance of 7 m and finally she moves a distance of 4 m towards East and stands at that point. How far is the starting point from where she stood?
 (A) 3 m (B) 4 m
 (C) 10 m (D) 11 m
- If animals that live on land and animals that live in water are represented by two big circles and animals that live in water and on land are represented by a small circle, the combination of these three can be best represented as _____.
 (A) (B)
 (A) (B)



8. How many triangles are there in the figure below?

- (A) 5 (B) 6
(C) 8 (D) 10



9. Minutes in m hours and m seconds are _____.

- (A) $60m$ (B) $\frac{3600}{60}m$
(C) $\frac{m}{3600}$ (D) $3660m$

10. A man is facing South. He turns 135° in the anticlockwise direction and then 180° in the clockwise direction. Which direction is he facing now?

- (A) North-East (B) North-West
(C) South-East (D) South-West

Section B (Subject Specific)

11. Identify the correct HTML tags sequence for a web page.

- (A) Head, Title, HTML, Body (B) HTML, Body, Title, Head
(C) HTML, Head, Body, Title (D) HTML, Head, Title, Body

12. What sort of storage device has no moving parts and allows quick data access?

- (A) Hard Disc Drives (HDD) (B) Solid State Drives (SSD)
(C) ODD (Optical Disc Drive) (D) USB Memory Stick

13. Identify the type of a computer-as-weapon cybercrime.

- (A) Injecting Trojans to a target victim (B) Credit card details leak in the deep web
(C) Phishing (D) MiTM

14. What does the command interpreter do in an operating system?

- (A) Manage files and folders (B) Interpret and execute user requests
(C) Control data flow across devices (D) Allocate system resources

15. What will be the output of the following method?

`min(max(False, -1, -2), 3, 4)`

- (A) False (B) Error
(C) -1 (D) -2

16. What is the purpose of the "Track Changes" feature in Microsoft Word?

- (A) Create a table of contents (B) Highlight text in different colors
(C) Record edits made to the document (D) Change the font style

17. Honda's E2-DR is a _____ robot.

- (A) pet (B) domestic
(C) agriculture (D) disaster relief



18. What is the purpose of the “Record Slide Show” feature in PowerPoint?
(A) Add background music to slides (B) Record narration and timings for each slide
(C) Create a custom slide show (D) Insert video clips into the presentation
19. Wi-Fi and 3G allow an access to uninterrupted connection to the _____.
(A) World (B) Web
(C) World Wide Web (D) Internet
20. What is the function of Excel’s “Goal Seek” feature?
(A) Create and calculate formulas (B) Automatically format cells
(C) Create data analysis scenarios (D) Find a value to get the desired outcome
21. In a relational database, what is a foreign key?
(A) An encryption key
(B) A key that uniquely identifies a record
(C) A key that corresponds to the primary key in another table.
(D) A key used for data sorting
22. What can you do with the HTML <iframe> tag?
(A) Include a video (B) Include an inline frame for external material
(C) Define a section in a document (D) Include an image gallery
23. What does URL stand for in the context of the Internet?
(A) Uniform Resource Locator (B) Universal Routing Language
(C) Unified Resource Link (D) Unique Resource Locator
24. What does HTTPS stand for in website addresses?
(A) Hypertext Transfer Protocol Secure
(B) High-Tech Encryption and Security Protocol
(C) Hyperlink and Text Security
(D) Home Transfer Protocol for Electronic Payment Systems
25. What is the purpose of the __init__ method in a Python class?
(A) It initializes the class variables. (B) It defines the class methods.
(C) It is a reserved method name for constructor. (D) It is used for inheritance.
26. Which challenge is often associated with human-robot interactions in collaborative environments?
(A) Lack of sensor technologies (B) Limited mobility of robots
(C) Ensuring safety (D) Insufficient power supply
27. What is the primary benefit of 5G technology in telecommunications?
(A) Increased network latency (B) Slower data transfer rates
(C) Improved speed and connectivity (D) Enhanced cybersecurity





28. What is the aim of regular software upgrades in terms of cyber security?
- (A) Improve system performance (B) Remove redundant files
(C) Address security flaws and guard against exploits (D) Boost internet speed
29. What is the SQL SELECT statement used for?
- (A) Insert data into a table (B) Update existing table records
(C) Retrieve data from a database (D) Delete table records
30. Which Excel feature allows you to consolidate data from multiple worksheets into one?
- (A) Data Validation (B) Data Consolidation
(C) Data Sorting (D) Data Filtering
31. What are the advantages of using “Presenter View” in a PowerPoint presentation?
- (A) View the current slide being shown to the audience
(B) View upcoming slides, speaker notes, and elapsed time
(C) Save the presentation for later viewing
(D) Add comments directly to slides
32. In Microsoft Word, what is the purpose of the “Styles” feature?
- (A) Change the color of text
(B) Apply predefined formatting to text
(C) Insert hyperlinks
(D) Check for spelling and grammar errors
33. Which of the following is not a function of an operating system?
- (A) Memory management (B) File management
(C) Word processing (D) Process scheduling
34. What is the purpose of the BIOS (Basic Input/Output System) in a computer?
- (A) Run applications
(B) Manage hardware resources
(C) Provide a user interface
(D) Bootstrap the computer and initialize hardware
35. What is the purpose of the break statement in a loop in Python?
- (A) It continues to the next iteration of the loop.
(B) It terminates the loop.
(C) It skips the current iteration and continues with the next.
(D) It is used for exception handling.





Instruction: Q. 36 to 40 are two-key based questions having four options A, B, C and D out of which TWO are correct.

36. What is true about trigger in context of animation?
- (A) It sets a link to another slide, or performs a similar action on clicking.
 - (B) It is an action or event that is performed on the slide when clicked.
 - (C) It comes under the advanced animation category.
 - (D) Click Animation → Animation group → Trigger to initiate the trigger.
37. Which of the following are used to perform 'what-if' analysis in Excel?
- (A) Scenario Manager
 - (B) Scenario
 - (C) Data Consolidation
 - (D) Solver
38. The different types of constraints in Relational Model are _____ and _____.
- (A) Data Type Constraints
 - (B) Domain Constraints
 - (C) Attribute Constraints
 - (D) Referential Integrity Constraints
39. The width and height of an image can be set using the width and height attributes which are specified in terms of either _____ or _____ of its actual size.
- (A) Pixels
 - (B) Percentage
 - (C) Ratio
 - (D) Fraction
40. The first online chat system was called Talkomatic. It was created by _____ and _____ in 1973 on the PLATO System at the University of Illinois.
- (A) Ray Ozzie
 - (B) Doug Brown
 - (C) David R. Woolley
 - (D) Donald Bitzer

Section C (Competency Enhancement)

41. Kavya's computer is not working properly. The executable files and programs with extensions like .exe, .sys, .drv, etc. have gotten infected. Which of the following virus might have entered her computer?
- (A) Sunday
 - (B) Disk Killer
 - (C) Tequila
 - (D) Elkern
42. Sumit has recently installed a new operating system on his computer. In this operating system, the desktop environment and applications have been localised to enable the use of Indian languages. Identify the operating system.
- (A) Apple iOS
 - (B) BOSS Linux
 - (C) Android
 - (D) Windows



43. Amaira's computer has suddenly stopped working and is not responding. Her sister suggested that she restart the computer. Restarting a running computer is called _____.
- (A) Normal boot (B) Cold boot
(C) Cool boot (D) Warm boot
44. Ramesh wants to solve one variable problem, suggest him which of the data analysis tools is best suited for him.
- (A) Scenario Manager (B) Subtotal
(C) Goal Seek (D) Solver
45. Cyber security protects our networks, computers, programs from attack, damage, or unauthorised access. It involves many technologies, processes or practices, however which of the following creates false feeling of security?
- (A) VPN (B) Encryption
(C) Firewall (D) All of these
46. Arun is calculating the grades of students on the basis of the marks they score. Suggest him the most suitable selection statement to get the desired result.
- (A) if..elif (B) if...elif...else
(C) if...else (D) None of the above
47. Manvi wants to write a statement that will cause the program to skip the rest of the statements in the current block and to move to the next iteration of the loop. Which statement should she use for this?
- (A) Jump (B) Continue
(C) Label (D) Break
48. Every automated gadget around us is not necessarily AI-based. Given below are such examples. Identify the incorrect one.
- (A) Industrial Robots (B) IP-Enabled Security Cameras
(C) Snapchat Filters (D) Fully Automatic Dishwasher
49. You have learned about the EPOS system, which is used in retail stores to process customer sales. Which of the following would not be an example of EPOS?
- (A) Barcode scanner (B) Cash drawer
(C) Card machine (D) Cash register
50. Dwij was driving his car, so he used the speech recognition software instead of typing the topic in the search engine. Which technology has he used?
- (A) Intelligent Apps (B) Expert System
(C) Natural Language Processing (D) Intelligent Agents





web



click

