



CYBER

Grade 10

National Level Examination

NLE 2025



Subject Code:

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Total Questions: 50

Total Marks: 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)

1. Bird : Nest :: Spider : ?
(A) Web (B) Hole
(C) Cave (D) Tree
2. Smoke is related to fire in the same way as sound is related to _____.
(A) Music (B) Noise
(C) Silence (D) Vibration
3. Aarav is twelve years old and has been asking his parents for a dog for the past three years. However, his parents believe that a dog wouldn't be happy in an apartment. They have given Aarav permission to have a bird, although he hasn't yet decided which type of bird to choose.
Which of the following statements can be concluded as true based on the information provided?
(A) Aarav's parents prefer birds over dogs. (B) Aarav dislikes birds.
(C) Aarav and his parents live in an apartment. (D) Aarav and his parents want to move.
4. Five girls are sitting in a row.
 - Gunjan is not adjacent to Sonia or Amrita.
 - Reena is not adjacent to Sonia
 - Gunjan is adjacent to Nidhi.
 - Nidhi is at the middle in the row.Reena is adjacent to whom out of the following?
(A) Gunjan (B) Sonia
(C) Amrita (D) Nidhi
5. $a + b : a - b = 1 : 5$, then $a^2 - b^2 : a^2 + b^2$ equals _____.
(A) 2 : 3 (B) 3 : 2
(C) 5 : 13 (D) 13 : 5
6. 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
7. MATTER is related to TAMRET in the same way as NESTED is related to _____.
(A) SNETED (B) SENDET
(C) TESNED (D) DETNES



8. One day, Purnima left home and cycled 10 km southwards, turned right and cycled 5 km then turned right and cycled 10 km after that again turned right and cycled 10 km and finally turned left and cycled 10 km. How many kilometers will she have to cycle to reach his home from this point?
(A) 10 km (B) 15 km
(C) 20 km (D) 25 km
9. Choose the pair in which the words are differently or unusually related:
(A) Doctor : Patient (B) Author : Book
(C) Chef : Recipe (D) Teacher : Student
10. Delicious : Taste :: Melody : ?
(A) Highness (B) Tongue
(C) Speak (D) Voice

Section B (Subject Specific)

11. Kernel is a part of which of the following?
(A) System Software (B) Application Software
(C) Antivirus Software (D) Cloud Storage
12. What is the purpose of a file system in an operating system?
(A) To manage system memory (B) To manage hardware input/output
(C) To organise and store files on a disk (D) To manage the execution of processes
13. What is the default left margin of a Word document?
(A) 1" (B) 1.25"
(C) 1.5" (D) 2"
14. What is the purpose of “Slide Master” in PowerPoint?
(A) To edit the first slide of the presentation (B) To apply consistent design across all slides
(C) To preview animations (D) To create speaker notes
15. What is the purpose of using the SUBTOTAL function in Excel?
(A) To calculate grand totals only
(B) To calculate subtotals in filtered or grouped data
(C) To create a table
(D) To format cells
16. What is a ‘primary key’ in a database?
(A) A unique identifier for each record in a table
(B) A key used to link multiple databases
(C) A key used to perform calculations
(D) A duplicate value identifier



17. Identify the correct output of the given HTML code.

*Untitled - Notepad

File Edit Format View Help

```
<ol>
<li>HTML</li>
<li>CSS</li>
<li>JavaScript</li>
</ol>
```

- (A) A bulleted list with “HTML”, “CSS”, and “JavaScript”
- (B) A numbered list with “1. HTML, 2. CSS, 3. JavaScript”
- (C) A list with checkboxes next to “HTML”, “CSS”, and “JavaScript”
- (D) No list visible at all

18. Which protocol is used for receiving email messages from a server?

- (A) SMTP
- (B) HTTPS
- (C) IMAP
- (D) FTP

19. Which of the following can be a hardware device or a software program that filters all the packets of data that comes through a network, the Internet, etc.

- (A) Antivirus
- (B) Malware
- (C) Cookies
- (D) Firewall

20. In Pseudocode, how would you represent a loop that runs 5 times?

- (A) FOR i = 1 TO 5 DO
- (B) WHILE i < 5 DO
- (C) REPEAT 5 TIMES
- (D) LOOP 5 TIMES

21. Select the one that is NOT a safe password practice.

- (A) Using a mix of letters, numbers, and symbols
- (B) Reusing passwords for multiple accounts
- (C) Changing passwords periodically
- (D) Using long passwords

22. Which of the following generation of computers is related to Artificial Intelligence?

- (A) Third generation
- (B) Fifth generation
- (C) First generation
- (D) Fourth generation

23. Identify the function that is used to combine text from multiple cells into one?

- (A) VLOOKUP
- (B) CONCATENATE
- (C) LEFT
- (D) COMBINE

24. Which tool in MS Word allows you to add a clickable link to another document, webpage, or location within the same document?

- (A) Hyperlink
- (B) Bookmark
- (C) Footnote
- (D) Table of Contents



25. Mark the Internet service which is primarily used to make free or low-cost voice calls over the Internet?

(A) HTTP (B) FTP
(C) SMTP (D) VoIP

26. Which layer of the OSI model is responsible for reliable data transfer and flow control?

(A) Network layer (B) Transport layer
(C) Data Link layer (D) Application layer

27. Select the feature in PowerPoint that allows you to create custom animations and transitions.

(A) Animation Painter (B) Custom Effects
(C) Animation Pane (D) Transition Designer

28. In database management systems (DBMS), what does the term “normalization” refer to?

(A) Converting data to machine language (B) Storing data in a single table
(C) Structuring data to reduce redundancy (D) Creating custom reports

29. Which attribute is used in HTML5 to specify the character encoding for a webpage?

(A) charset (B) encoding
(C) lang (D) char

30. For the excel workbook displayed in the diagram below, which of the following is the right formula for cell C6?

	A	B	C
1	Student Name	Score in FA3	Score in FA4
2	A	11	18
3	B	17	18
4	C	19	10
5	Total Score	47	46
6	Average Score	15.67	15.33

(A) $\text{SUM}(\text{B2:B4})$ (B) $\text{AVERAGE}(\text{B2:B4})$
(C) $\text{SUM}(\text{C2:C4})$ (D) $\text{AVERAGE}(\text{C2:C4})$

31. 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

32. 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

33. 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

34. 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



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. In Mail Merge, which two of the following can be used as data sources to insert into a Word document?

- (A) Excel spreadsheet
- (B) Images
- (C) Word document
- (D) Access database

37. Which two types of sensors would a self-driving car use to detect nearby vehicles or obstacles?

- (A) Lidar
- (B) Ultrasonic
- (C) Gyroscope
- (D) Thermometer

38. Which two of the following practices will help you prevent identity theft?

- (A) Sharing your passwords with trusted friends
- (B) Regularly checking your bank statements for unauthorized transactions
- (C) Keeping your social media accounts private
- (D) Using the same password across all accounts

39. Which HTML5 attributes are used with the `` tag to improve accessibility and search optimisation?

- (A) alt
- (B) width
- (C) title
- (D) height

40. Mark the advantages of using a relational database?

- (A) Data redundancy
- (B) Data integrity
- (C) Data isolation
- (D) Data security

Section C (Competency Enhancement)

41. Rohan needs to send high-quality images and a long video file to his teacher. His email service only allows a maximum attachment size of 25MB. Which of the following internet services can Rohan use to overcome the attachment limit?

- (A) Cloud storage link from Google Drive or OneDrive
- (B) File compression tool
- (C) CC in the email to add extra recipients
- (D) Social media messaging apps

42. Maya wants to print a document, but the printer is already printing someone else's work. What operating system feature helps manage the printing jobs in this situation?

- (A) Disk Management
- (B) Network Sharing
- (C) Spooling
- (D) Defragmentation



43. You have a list of dates in Excel, and you want to highlight the weekends (Saturday and Sunday) using conditional formatting. Which of the following formulas would you use in the conditional formatting rule?

(A) $=\text{WEEKDAY}(A1, 1)=1$ (B) $=\text{WEEKDAY}(A1, 2)=6$
(C) $=\text{TEXT}(A1, "dddd")="Saturday"$ (D) $=\text{WEEKDAY}(A1, 1)>5$

44. You receive an email claiming you won a lottery, but you never participated in one. What should you do?

(A) Report the email as phishing (B) Reply to the email and ask for details
(C) Click the link to claim your prize (D) Share the good news with friends

45. A logistics company needs to ensure real-time tracking of their shipments, with data shared across multiple points in the supply chain. Which IT trend would be most beneficial?

(A) Blockchain (B) Big Data
(C) Cloud Computing (D) Artificial Intelligence

46. How can the use of cookies enhance a user's experience on an e-commerce website?

(A) By tracking the user's location
(B) By increasing the website's loading speed
(C) By remembering user preferences and previous purchases
(D) By providing real-time chat support

47. Rohan is working on a document in Microsoft Word and wants to apply consistent styles to headings and subheadings. Which Word feature should Rohan use to maintain this format?

(A) Styles and Formatting (B) WordArt
(C) Quick Parts (D) Clipboard

48. Karan is working on a project in which he needs to store and manage large volumes of data efficiently. Which database management concept would be most beneficial for Karan in this situation?

(A) Relational Database (B) Cloud Storage
(C) NoSQL Database (D) File System

49. Ishaan is building a website and wants to add a feature that allows users to submit contact forms directly through the website. Which of the following HTML5 input types should Ishaan use for the form?

(A) `<input type="submit">` (B) `<input type="form">`
(C) `<input type="button">` (D) `<input type="textarea">`

50. Priya wants to create a data table in Excel and automatically apply a calculation to a column when she enters data. Which Excel feature should Priya use for this?

(A) Pivot Table (B) AutoFill
(C) Data Validation (D) Formula Bar



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