



GRADE 10

CYBER

School Level Examination (SLE) 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

- Carefully fill in your **Name, Class, Roll Number**, and other required details on the **OMR Answer Sheet**.
- Use **only an HB pencil** to fill the OMR Answer Sheet.
- All questions are **compulsory** and carry **one mark** each.
- Only **OMR Answer Sheets** will be evaluated.
- There is **no negative marking** for incorrect answers.
- You may use the **last page** of the question paper for **rough work**.
- **Digital devices** like calculators, smart watches, or mobile phones are **not allowed**.
- After the exam, **submit** both the **OMR Answer Sheet** and the **Question Paper** to the invigilator.

This question paper contains a total of 50 questions divided into three sections - A, B and C.

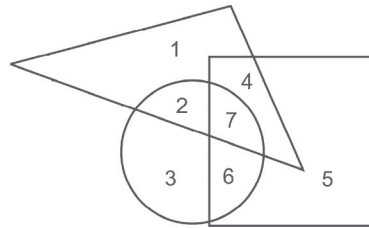
Section A (Logical Reasoning)

1. If X means $\div$, Y means $\times$, Z means $-$, and W means $+$, then solve:

$$36 Y 2 X 6 W 8 Z 5 = ?$$

- (A) 11 (B) 13
(C) 15 (D) 17

2. If tall is equivalent to circle, soldiers to triangle and strong to square, indicate which number will represent tall and strong soldiers:



- (A) 2 (B) 4
(C) 7 (D) 11

3. Identify the odd relationship.

- (A) Smile : Laugh (B) Walk : Run
(C) Throw : Catch (D) Warm : Hot

4. Find the missing number in the series:

11, 25, 53, 109, ?

- (A) 201 (B) 191
(C) 211 (D) 221

5. If in a certain code, TWENTY is written as 863985 and ELEVEN is written as 323039, how is TWELVE written in that code?

- (A) 863584 (B) 863203
(C) 863903 (D) 863063

6. Read the information given below and answer the question that follows:

- I. P, Q, R, S, T and U are six members of a family.
II. One couple has parents and their children in the family.
III. P is the son of R and T is the daughter of P.
IV. S is the daughter of T who is the mother of U.

Who are the male members in the family?

- (A) P and R (B) R and T
(C) P, Q and S (D) Cannot be determined

7. In a school, there were six teachers. A and B were teaching Mathematics and Science. B and C were teaching English and History. A and D were teaching Geography and French. A and E were teaching Chemistry and Biology.

Who among the teachers was teaching the maximum number of subjects?

- (A) F (B) B
(C) C (D) A

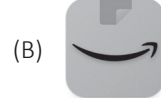
8. If the position of the third and tenth letters of the word “DOCUMENTATION” is interchanged, and likewise the position of the fourth and seventh letters, the second and sixth letters, is also interchanged, which of the following will be eleventh letter from the right end?
- (A) C (B) I
(C) T (D) U

Section B (Subject-Specific)

9. Which operating system is open-source and widely used in servers and embedded systems?
- (A) Linux (B) Windows
(C) Mac OS (D) Android
10. What is the function of a microprocessor chip used in a PC system?
- (A) Performs the primary storage function
(B) Performs the arithmetic-logic and control functions
(C) Operates on by-bits of data at a time always
(D) Not found in most PC models
11. What are the correct steps to protect your presentation by setting up a password on it?
- (A) File → Info → Protect Presentation → Set Password
(B) File → Info → Protect Presentation → Restrict Access
(C) File → Info → Account → Protect Presentation → Set Password
(D) File → Info → Protect Presentation → Encrypt with Password
12. Which of the following algorithm techniques is based on the strategy that the page which has not been used for the longest time in main memory will be replaced?
- (A) Least Recently Used (LRU) algorithm
(B) First In First Out (FIFO) algorithm
(C) Optimal page algorithm
(D) Last In First Out (LIFO) algorithm
13. Which of the following keys will advance the slides in a Slide Show view?
- (A) Enter key (B) Tab key
(C) Esc key (D) Alt key
14. What does a character style impact on?
- (A) current page (B) current paragraph
(C) selected character (D) whole document
15. How do agricultural drones used in precision agriculture help farmers?
- (A) monitor livestock and crops
(B) increase individual profit
(C) predict weather conditions in the farm
(D) offer job opportunities
16. In a virtual memory system, which technique is used to swap pages in and out of memory?
- (A) Thrashing (B) Paging
(C) Segmentation (D) Fragmentation

17. What is the effect applied to display when slides change in Slide Show view?
- (A) Slide Animation
 - (B) Custom Animation
 - (C) Custom Transition
 - (D) Slide Transition
18. Which of the following fields or collections of fields in a database table is the primary key in another table?
- (A) Alternate
 - (B) Foreign
 - (C) Candidate
 - (D) All of these
19. Which service allows users to remotely access another computer over the Internet?
- (A) Telnet
 - (B) POP3
 - (C) IMAP
 - (D) SNMP
20. What is the name of feature that shows data in columns based on specified criteria?
- (A) Formula
 - (B) Sorting
 - (C) Filter
 - (D) Pivot
21. What does voice recognition use?
- (A) Automatic Speech Recognition (ASR)
 - (B) Speech Synthesis
 - (C) Sound Wave Processing
 - (D) Signal Processing
22. Which of the following queries will give the correct output to display records whose name's second letter is 'i' of the STUDENTS table?
- (A) SELECT * FROM STUDENTS WHERE name like '_i%';
 - (B) SELECT * FROM STUDENTS WHERE name like '%_i';
 - (C) SELECT * FROM STUDENTS WHERE name like '%_i%';
 - (D) SELECT * FROM STUDENTS WHERE name like '___i%';
23. Which of the following statements is NOT true about distributed operating systems?
- (A) Multiple computers work as one system.
 - (B) Provides a single user interface.
 - (C) All computers must be in the same location.
 - (D) Enables resource sharing.
24. Referring to the code given below:
`<A href= '#Top'> Top </A>`
 Which type of linking does it exhibit?
- (A) Internal Linking
 - (B) External Linking
 - (C) Web Link
 - (D) None of these
25. What is the key advantage of Linked Object Embedding (OLE) in Word?
- (A) Real-time updates between linked and source documents
 - (B) Faster saving of large documents
 - (C) Increased security of embedded content
 - (D) Automatic spell-checking of embedded objects

26. Which of the following is NOT an online shopping site?



27. The Canvas API in HTML5 is primarily used for:

- (A) Vector-based graphics
- (C) Pixel-based drawing

- (B) 3D rendering
- (D) Server-side scripting

28. Which of the following is the hacking approach where cyber-criminals design fake websites or pages for tricking or gaining additional traffic?

- (A) Mimicking
- (C) Pharming

- (B) Spamming
- (D) None of these

29. What is the main advantage of IPv6 over IPv4?

- (A) Stronger encryption
- (C) Higher transmission speed

- (B) Larger address space
- (D) Backward compatibility with IPv4

30. Which of the following features uses computer vision?

- (A) Fingerprint scanner
- (C) Dolby Atmos

- (B) Facial recognition
- (D) None of these

31. What is the primary use of lambda functions in Python?

- (A) Define functions inside a class
- (B) Create anonymous functions
- (C) Implement recursion
- (D) Handle file operations

32. In this attack, the attacker sends repeated SYN packets to every port on the targeted server, often using a fake IP address.

- (A) SYN-ACK attack
- (C) Brute force attack

- (B) SYN flood attack
- (D) Denial attack

33. Which of the following companies is known for its AI-powered chatbot Watson?

- (A) IBM
- (C) Microsoft

- (B) Amazon
- (D) Google

34. What is a major drawback of using NoSQL databases instead of relational databases?

- (A) Lack of horizontal scalability
- (B) No support for structured queries
- (C) Inability to handle unstructured data
- (D) Weak consistency in distributed systems

35. Which AI technique powers Deepfake technology?

- (A) Convolutional Neural Network
- (B) Generative AI
- (C) Recurrent Neural Network
- (D) Decision Trees

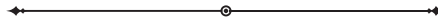
Instruction: Q. 36 to 40 are two-key based questions having four options A, B, C and D out of which TWO are correct.

36. How can you show or hide the gridlines in Excel worksheet?
- (A) View tab → Show group → Mark/Remove the checkbox named Gridlines
 - (B) Tools → Options → Show/Hide the checkbox named Gridline
 - (C) Page Layout tab → Sheet Options group → Gridlines → View
 - (D) Data tab → Gridlines → View
37. Which of the following is/are key components of Artificial Intelligence ?
- (A) Machine Learning
 - (B) Robotics
 - (C) Cloud Computing
 - (D) Neural Networks
38. What does the term “zero-day vulnerability” refer to in cybersecurity?
- (A) A security flaw that is unknown to the software vendor.
 - (B) A newly discovered security vulnerability that is exploited before a patch is available.
 - (C) A type of malware that spreads rapidly across computer networks.
 - (D) A cyber attack that targets specific individuals or organisations.
39. Which combination of technologies leads to the development of robots that exhibit human-like intelligence?
- (A) Humans
 - (B) Internet of Things
 - (C) Robotics
 - (D) Artificial Intelligence
40. Which of the following are the Payment Service Provider (PSP)?
- (A) PayPal
 - (B) Amazon Pay
 - (C) Streep
 - (D) Stride

Section C (Competency Enhancement)

41. Ananya shares her ideas and experiences with unfamiliar people online, enabling mutual learning. She connects with them for a common purpose using effective Internet communication tools. Which platform is she using?
- (A) Video conferencing
 - (B) Blogs
 - (C) E-groups
 - (D) Chatting
42. A database designed by Aarav contains book records with different fields. Identify the field that is not appropriate for CHAR or VARCHAR data type.
- (A) Price
 - (B) Title
 - (C) Author_name
 - (D) Subject
43. Ameesha wants to create a website showing chemical reactions. Which tag(s) should she use to depict the chemical equations?
- (A) `<sub> </sub>`
 - (B) `<eqn> </eqn>`
 - (C) `<chem> </chem>`
 - (D) `<rxn> </rxn>`
44. Sophia, a financial planner, is conducting a what-if analysis in Microsoft Excel to determine the effect of different interest rates on a loan payment, which feature would Sophia use to find the required interest rate to achieve a specific payment?
- (A) Data Tables
 - (B) Concatenate
 - (C) Scenario Manager
 - (D) Goal Seek

45. If you are cyberbullied by someone, what will you choose to do?
- (A) Reply in repulsive language (B) Cyberbully him/her in return
(C) Block the communication immediately (D) Remain silent and do nothing
46. Sohan wants to create a program in which he needs to exit a loop, when the specified condition evaluates to True. But he does not know which statement is suitable for this. Help him by suggesting the correct statement.
- (A) Break statement (B) Do while
(C) Switch statement (D) Exit statement
47. Vidya's parents want to invite Vidya's friends on her birthday. They want to send personalised invitations. Which of the following features in Word can help them do this quickly?
- (A) Mailings (B) Mail Merge
(C) Envelopes (D) Labels
48. Arjun is managing a database for his company. He applied a key to a column that prevents duplicate and null values. Which key did he use?
- (A) Unique key (B) Primary key
(C) Index key (D) Composite key
49. Meera's laptop suddenly stopped responding, and her friend advised her to restart it. What is the process of restarting a computer that is already running called?
- (A) Soft boot (B) Hard reset
(C) Warm boot (D) Safe mode
50. Kavya needs a device to print high-quality technical drawings and blueprints. Which of the following should she purchase?
- (A) Projector (B) Plotter
(C) Modem (D) Barcode scanner



SPACE FOR ROUGH WORK