



School Level Examination
SLE 2024

SET:

I

GRADE
9

CYBER

Subject Code:

5	0	1
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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, darken the circles in the **ANSWER SHEET**, use a **BLUE/BLACK BALL-POINT PEN** only.
- You **MUST** record your answers on the **ANSWER SHEET** only.
- There are **50 MULTIPLE CHOICE QUESTIONS**. Each question carries one mark. Use the information provided to choose the **BEST** possible answer among the four options. On your **ANSWER SHEET** darken the circle that matches your answer.
- Marks are **NOT** deducted for incorrect answers.
- 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.

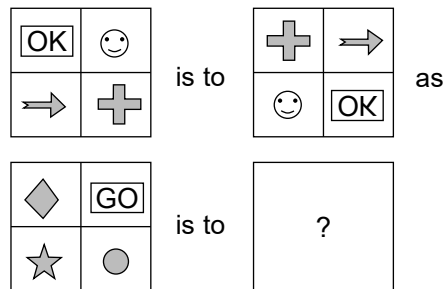
Section A (Logical Reasoning)

1. Select the option that is related to the fifth number in the same way as the second number is related to the first number and fourth number is related to third number.

139:228::122:211::2:

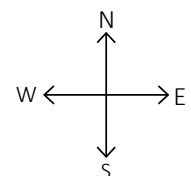
- (A) 91 (B) 89
(C) 198 (D) 189

2. Which option figure completes the second pair in the same way as the first pair?



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

3. In a shop, there were 4 dolls of different heights Anya, Banya, Canya and Danya. Danya is neither as tall as Anya nor as short as Canya. Banya is shorter than Danya but taller than Canya. If Shanaya wants to purchase the tallest doll, which one should she purchase?
- (A) Only Anya (B) Only Danya
(C) Either Anya or Danya (D) Either Banya or Danya
4. How many pairs of letters are there in the word 'ADEQUATELY' which have as many letters between them in the word as in the alphabet?
- (A) Nil (B) One
(C) Two (D) Three
5. Six people Ajay, Bantu, Jaya, Dinesh, Ritesh and Tanya are sitting, on the ground in a hexagonal shape. All the sides of the hexagon so formed are of same length. Ajay is not adjacent to Bantu or Jaya; Dinesh is not adjacent to Jaya or Ritesh; Bantu and Jaya are adjacent; Tanya is in the middle of Dinesh and Jaya. Which of the following is not a correct neighbour pair?
- (A) Dinesh and Tanya (B) Bantu and Ritesh
(C) Ajay and Tanya (D) Jaya and Tanya
6. A person starts from his house and walks 100 m straight towards south, then takes left turn and walks 75 m straight towards east. How far is from starting point?
- (A) 175 m (B) 125 m
(C) 100 m (D) 25 m



7. A postman was returning to the post office which was in front of him to the north. When the post office was 100 metres away from him, he turned to the left and moved 50 metres to deliver the last letter at Shantivilla. He then moved in the same direction for 40 metres, turned to his right and moved 100 metres. How many metres was he away from the post office?
- (A) 0 (B) 150
(C) 90 (D) 100
8. Find the missing characters in the series given below.
ab_a_c_bc_b_
- (A) cbaac (B) abcca
(C) cbcac (D) bcacc
9. Choose the correct option to complete the following analogy:
HEART EARS STARS : CREST ? TREAT
- (A) REST (B) EAT
(C) RACED (D) REACH
10. Five persons are standing in a queue. One of the two persons at the extremes is a professor and the other is a businessman. An advocate is standing to the right of a student, an author is to the left of the businessman. The student is between the professor and the advocate. Counting from the left, the author is at place.
- (A) First (B) Second
(C) Third (D) Fourth

Section B (Subject Specific)

11. Which of the following terms IS NOT one of the five basic parts of a robot?
- (A) end effectors (B) controller
(C) peripheral tools (D) drive
12. Choose the correct option.
- | | |
|---------------------------|-----------------|
| i. 1024 Petabytes (PB) | a. 1 Yottabyte |
| ii. 1024 Exabytes (EB) | b. 1 Exabyte |
| iii. 1024 Zettabytes (ZB) | c. 1 Geopbyte |
| iv. 1024 Yottabytes (YB) | d. 1 Zettabyte |
| v. 1024 Brontobytes (BB) | e. 1 Saganbyte |
| vi. 1024 Geopbytes (GB) | f. 1 Brontobyte |
- (A) i. → b; ii. → d; iii. → a; iv. → f; v. → c; vi. → e
(B) i. → a; ii. → d; iii. → b; iv. → f; v. → c; vi. → e
(C) i. → a; ii. → c; iii. → b; iv. → f; v. → d; vi. → e
(D) i. → a; ii. → c; iii. → b; iv. → e; v. → d; vi. → f
13. Noah is working on her math homework in Microsoft Word. She wants to highlight important equations in the document. Which option should she use to highlight text?
- (A) Text Highlight Color (B) Font Size
(C) Spell Check (D) Cut
14. #VALUE! refers to _____.
- (A) the instruction "Enter desired valid value"
(B) the instruction "Enter additional set value"
(C) the additional value (D) Error in value

15. Consider the pseudo code segment written below in:
 If (count<10) Then --- // if Statement 1
 If((count%4) == 2) Then --- // if Statement 2
 Show ("condition is : white")
 Else --- //(Indentation is wrong)
 Show ("condition is : tan")
 There are 2 if statements and one else. To which if, the else statement belongs?
 (A) It belongs to if statement 1 (B) It belongs to if statement 2
 (C) It belongs to both the if statements (D) It does not belong to any if
16. A _____ attack is an intentional cyber-attack in which the attacker attacks the network, website, or online resources to restrict legitimate users to use it.
 (A) Phishing (B) Denial-of-service
 (C) Criminal (D) Physical
17. The number of moveable joints in the base, the arm, and the end effectors of the robot determines _____.
 (A) degrees of freedom (B) payload capacity
 (C) operational limits (D) flexibility
18. _____ refers to the process of locating and removing errors in a program.
 (A) Analysing (B) Correcting
 (C) Debugging (D) Executing
19. A collection of hyperlinked documents on the internet forms the _____.
 (A) World Wide Web (WWW) (B) E-mail system
 (C) Mailing list (D) Hypertext markup language
20. Identify the correct option regarding Transition in PowerPoint.

(i) Duration	(a) Used to apply the current slide's transition effect and timing settings to all the slides of the presentation.
(ii) Apply To All	(b) Used to play the current slide's transition.
(iii) After	(c) Used to specify the length of the transition.
(iv) Sound	(d) Used to specify the time (in seconds) after which the next slide will appear.
(v) Preview	(e) Used to specify the sound to play for the current transition.

- (A) (i) → (c), (ii) → (a), (iii) → (d), (iv) → (e), (v) → (b) (B) (i) → (d), (ii) → (a), (iii) → (c), (iv) → (e), (v) → (b)
 (C) (i) → (d), (ii) → (e), (iii) → (c), (iv) → (a), (v) → (b) (D) (i) → (d), (ii) → (e), (iii) → (c), (iv) → (b), (v) → (a)
21. A game based on which animated franchise propelled augmented reality (AR) into the mainstream in recent years?
 (A) Fortnite (B) Super Mario
 (C) World of Warcraft (D) Pokemon
22. Which of the following features is used to progress the slide show automatically while speaking on the topic?
 (A) Custom Animation (B) Rehearse Timing
 (C) Slide Transition (D) Either (A) or (B)
23. In MS-Word, if you want to display the meaning of a word in your text at the bottom of the last page, which feature will help you?
 (A) Endnote (B) Footnote
 (C) Bottomnote (D) Footernote
24. Which of the following attributes of the tag is used to set the colour of text?
 (A) COLOR (B) TEXT
 (C) TEXTCOLOR (D) BGCOLOR

25. Which of the following is the meaning of the term 'gizmos'?
- (A) An App (B) A gadget
(C) A network (D) A protocol
26. A firewall in a network _____.
(A) prevents unauthorized access to the network.
(B) speeds up data transfer over the network.
(C) provides encryption for data on the network.
(D) prevents spam emails from being received on the network.
27. An Anti-virus program is a program that _____.
(A) Wipes a computer clean, so that all the files, including the viruses, are erased.
(B) Slightly reduces the effects of a virus.
(C) Works to prevent, detect, and remove viruses and other types of malware.
(D) Updates themselves automatically to provide protection against the latest viruses.
28. What is the value of the following MS-Excel function?
=FLOOR(14, 4)
(A) 10 (B) 13
(C) 14 (D) 12
29. Ramesh currently runs a car rental company and wishes to write a program that allows the user to enter the temperature of the location they plan to visit and then recommend a car based on the data.
Below is a summary of the program structure Ramesh is looking for.
- Temp greater than 80, a Convertible should be selected.
 - Temp greater than 60 as well as less than 80, an SUV should be selected.
 - Temp less than 60, a Truck should be selected.
- Ramesh has no trouble writing the code if the temperate is greater than 80 but gets stuck when he arrives at the second line of code which reads Temp greater than 60 as well as less than 80 an SUV should be selected. What type of operator is Ramesh needing to use within his code?
- (A) AND (B) OR
(C) NOT (D) No need of operator
30. When a field name has a space in its title, such as First Name, how is the merge field displayed in the mail merge document?
(A) FirstName (B) First-Name
(C) First_Name (D) First.Name
31. Which one of the following is not an example of computer language?
(A) NEVAC (B) FORTRAN
(C) PASCAL (D) COBOL
32. Which of the following is the use of hashtag (#) in social media?
(A) It is used to denote a hyperlink (B) It is used to highlight keywords or topics
(C) It is used to indicate a mention (D) It is used to denote a direct message
33. Which of the following sensors are used to measure the distance of any object from a robot?
(A) Camera (B) Microphones
(C) Proximity (D) Positioning
34. Which of the following statements is true for VOIP?
(A) You can make normal voice telephone calls over an internet connection.
(B) VOIP transfers the data packets over the traditional telephone line circuits.
(C) VOIP calls are more expensive than regular telephone calls.
(D) All of the above.

35. What are the types of unordered lists type in HTML?

- (A) Triangle, square, disc (B) Circle, square, disc
(C) Triangle, circle, disc (D) Circle, square, triangle

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. Choose the correct features of the Task Pane:

- (A) The Task Pane is a rectangular window that appears on the left side of the PowerPoint window.
(B) The Task Pane controls all the main slide control tasks for your presentation.
(C) The Task Pane is designed to help us choose the tasks to be completed.
(D) The Task Pane acts as an open menu allowing us to select from a range of commands and functions.

37. Click jacking, a type of cyber attack, is _____

- (A) An attack technique that tricks users with invisible or disguised webpage elements.
(B) A device that sends and receives data at every click in a bit per second.
(C) A malicious technique of tricking web users into revealing confidential information.
(D) A digital process that is used to display an image on mobile.

38. Consider the following table:

Name	Computer		Biology		Physics	
	Practical	Theory	Practical	Theory	Practical	Theory
Meenakshi	B	A+	B	A	B+	A-
Nitin	A+	A	B+	C+	A	A-

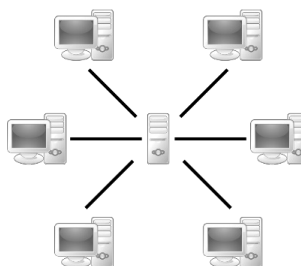
Which of the following two attributes are used to create the table heading in above table?

- (A) COLSPAN (B) ALIGN
(C) ROWSPAN (D) WIDTH

39. QWERTY refers to:

- (A) Arrangement of hardware parts of a standard computer or mobile devices.
(B) Arrangement of keys on a standard English computer keyboard.
(C) Arrangement of only function keys on a standard English computer keyboard.
(D) Arrangement of keys on a standard English computer typewriter.

40. Identify the correct statements for the given networking model:



- (A) It is star topology. (B) It is mesh topology.
(C) It is peer to peer architecture. (D) It is client server architecture.

Section C (Competency Enhancement)

41. "Your 3 year old sibling giving instruction to Google Home to play a nursery rhyme for him." Infer the ability of AI that will be used.

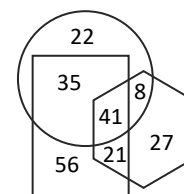
- (A) NLP (B) Text processing
(C) Speech recognition (D) Visualisation

42. Ravi has entered the following data in an Excel worksheet:

Name
Kuljeet Singh
Sonam Gupta
Anurag Mehta
Aadarshmita

We can see that some leading spaces are there in each cell before the name. Now, Ravi wants the same names in another column without leading spaces. Which type of function should he use to do so?

- (A) Logical (B) Text
(C) Math & Trig (D) He cannot do so in Excel
43. Consider the given diagram, the 'hexagon' stands for 'engineers', the 'circle' stands for 'music lovers', and the 'rectangle' stands for 'morning walkers'. The numbers given in the different segments represent the number of persons of that category.



How many morning walkers are music lovers and not engineers?

- (A) 21 (B) 35
(C) 41 (D) 8
44. Sonal mistakenly typed the word 'rational' and now wants to replace it with the word 'pragmatic' throughout the document. Which feature of Word will she use to do so?
- (A) Alignment (B) Font & Size
(C) Find & Replace (D) Find & Change
45. Riya wants to create a digital sign-up form for her school's upcoming event to collect participant details efficiently. She heard about a new app from Google that offers advanced features for creating interactive forms. What is the name of this app?
- (A) Google Drive (B) Google Sheets
(C) Google Forms (D) Google Chat
46. The Amazon, Netflix, YouTube recommendations are based on _____.
- (A) company rules (B) government policy
(C) user behaviour (D) None of these
47. Shreya is analysing customer reviews on an e-commerce website to understand common complaints and suggestions for improvement. Which NLP application would best help her achieve this?
- (A) Sentiment Analysis (B) Speech Recognition
(C) Data Mining (D) Machine Translation
48. Mr. John is a small businessman who runs a hardware company. He has been experiencing problems with his accounting department, on which he depends on to provide sales reports. He wants to share information among his seven computers and have a central printing area. What type of network would you recommend to Mr. John?
- (A) LAN (B) MAN
(C) WAN (D) None of these
49. Anuj is working on his computer. Suddenly, the computer slows down and some unwanted files appear automatically. Help him to identify the problem with his computer and suggest him a way to resolve the problem.
- (A) His computer is infected with a virus. It can be resolved by installing antivirus software like McAfee.
(B) His computer is running out of space. It can be resolved by formatting the computer.
(C) His computer is running out of space. It can be resolved by running a disc defragmenter.
(D) His computer's hard disk is damaged. It can be resolved by changing the hard disk.
50. Amit wants to buy a printer for his shop that can print up to 2 to 10 pages per minute with better quality. The printer that he wants to buy should produce high-quality print output by spraying drops of ink. Which of the following printer meets his requirements?
- (A) Inkjet printer (B) Line printer
(C) Character printer (D) Dot Matrix printer



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Presentation



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