



# Primrose Schools

Affiliated to the CISCE Board for ICSE & ISC  
Affiliated to the Cambridge University for IGCSE, AS & A Level  
An ISO 9001:2015 Certified Institution

## NATIONAL PRIMTALENT OLYMPIAD EXAMINATIONS CYBER

**CLASS**  
**8**

Name :

Section :

Roll no :

### Guidelines for the Candidates

1	Please check your Name, Class and Section on the OMR sheet provided to you.
2	In case, OMR sheet with your name is missing, please fill in information about yourself in the blank sheet provided before start of exam.
3	All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
4	There is only <b>ONE</b> correct answer. Choose only ONE option for an answer.
5	To mark your choice of answers by darkening the circles in OMR sheet, use <b><u>HB Pencil or Blue/Black ball point pen</u></b> only.
6	Rough work should be done in the blank space provided in the booklet.
7	Return the OMR sheet to the invigilator at the end of the exam
8	Please fill in your personal details in space on the top of this page before attempting the paper

## SECTION A - LOGICAL REASONING

1. Use inductive reasoning to determine the next two terms in the sequence.  
1, 3, 7, 15, 31, ...

- A. 41, 53
- B. 63, 127
- C. 69, 145
- D. 44, 57

2. Which of the figures can be used to model an even integer?

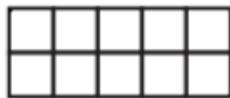


Figure A

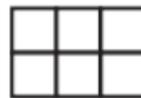


Figure B



Figure C

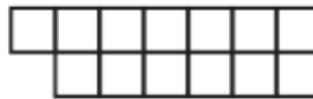
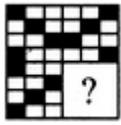


Figure D

- A. Figures A & C
  - B. Figures A & B
  - C. Figures C & D
  - D. Figures B & D
3. Which of this does not belong to the group?
- A. 25-5
  - B. (b)16-4
  - C. 144-12
  - D. 64-7

4. Identify the figure that completes the pattern.



(X)



(1)



(2)



(3)



(4)

- A. 2
- B. 3
- C. 4
- D. 1

5. Complete the series

MHZ, NIW, OKT, PNQ, \_\_\_\_\_

- A. RRN
- B. QRN
- C. QRM
- D. QQN

6. A woman introduces a man as the son of the brother of her mother. How is the man related to the woman?

- A. Uncle
- B. Grandson
- C. Cousin
- D. Son

7. T, R, P, N, L, \_\_\_\_\_ ?

- A. J, G
- B. J, H
- C. K, H
- D. K,

8. In a row of a class has 31 girls, when Ritu has shifted by 6 places towards the left, she became 16<sup>th</sup> from the right end. What was her position before from the left end of the row?

- A. 23
- B. 21
- C. 22
- D. 25

9. A dice is numbered from 1 to 6 in different ways.

If 1 is adjacent to 2, 4 and 6, then which of the following statements is necessarily true?

- A. 2 is opposite to 6
- B. 1 is adjacent to 3
- C. 3 is adjacent to 5
- D. 3 is opposite to 5

10. Tanya is older than Eric.

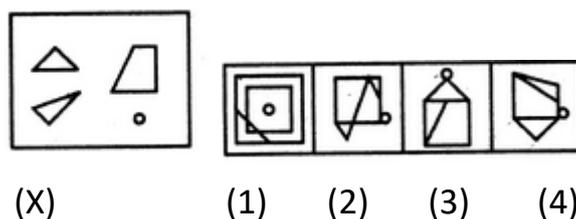
Cliff is older than Tanya.

.Eric is older than Cliff.

If the first two statements are true, the third statement is

- A. True
- B. False
- C. Uncertain
- D. none

11. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



- A. 1
- B. 2
- C. 4
- D. 3

## SECTION B - COMPUTERS AND INFORMATION TECHNOLOGY

12. What is the ASCII code for A?

- A. 97
- B. 65
- C. 66
- D. 98

13. Which of the following controls the process of interaction between the user and the operating system?

- A. User interface
- B. Language translator
- C. Platform
- D. Screen saver

14. The high level language program must go through various process except \_\_\_\_\_ before execution

- A. Linking
- B. Loading
- C. Controlling
- D. Translation

15. The chart that contains only function flow but no code is called as \_\_\_\_\_

- A. Flow chart
- B. Structure chart
- C. Both A & B
- D. None

15. What type of resource is most likely to be a shared common resource in a computer network?

- A. Printers
- B. Speakers
- C. Floppy disk drives
- D. Keyboards

16. A hardware or software designed to guard against unauthorized access to a computer network is known as \_\_\_\_\_

- A. Hacker-proof program.
- B. Firewall.
- C. Hacker-resistant server.
- D. Encryption safe wall.

17. What does a Firewall do?



- A. Protects against hackers.
- B. Protects against computer viruses
- C. Protects against threats from inside your organization.
- D. None of the above.

18. What type of computers are client computers (most of the time) in a client-server system?

- A. Mainframe
- B. Mini-computer
- C. Microcomputer
- D. PDA

19. After the programmer plans the logic of the program, he/she will next \_\_\_\_\_

- A. Understand the program
- B. Translate the program
- C. Code the program
- D. Test the program

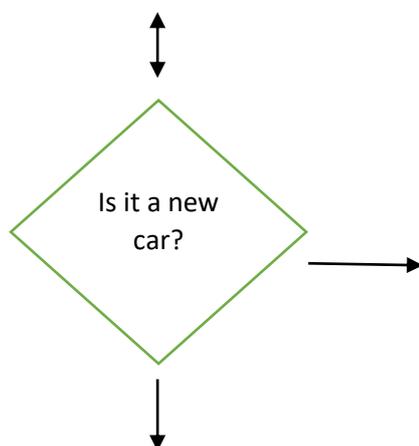
20. A normal CD- ROM usually can store up to \_\_\_\_\_ data?

- A. 680 KB
- B. 680 Bytes
- C. 680 GB
- D. 680 MB

21. In latest generation computers, the instructions are executed

- A. Parallel only
- B. Sequential only
- C. Both sequential and parallel
- D. All of above

22. The symbol displayed in the given flowchart is called a/ an \_\_\_\_\_



- A. On page connector
- B. Off page connector
- C. Terminal symbol
- D. Decision Symbol

23. Jayant is drawing a flow chart in which he has to show a step which needs to be calculated manually. Which of the following shapes will he select for that step?



24. What is the name of first computer virus?

- A. The Famous
- B. HARLIE
- C. PARAM
- D. Creeper

25. Which code will make your background red in HTML?

- A. `<body style=background-color:red;>`
- B. `<body style="background-color:yellow;">`
- C. `<body style="background-color:red;">`
- D. `<body colormybg="background-color:red;"`

26. Advantages of the network?

- A. Expensive Hardware
- B. Specialist staff required
- C. Communication
- D. Hacking

27. Which is not the reserved keyword for Java Programming language

- A. int
- B. char
- C. try
- D. var

28. Which is/are true for a variable in Java

- i. Numeric variables are used to assign both alphabets, digits or special characters
- ii. Variable name should not include a space in between the characters
- iii. Variable name can have 7 characters.
- iv. Data type of the variable depends upon the constant assigned to it.

- A. ii and iii
- B. i and iv
- C. i and ii
- D. ii and iv

29. The primitive data type used to declare the fractional numbers are called

\_\_\_\_\_.

- A. Integers
- B. Boolean
- C. Floating numbers
- D. Characters

30. What is the name of the viruses that fools a user to download and/or execute them by pretending to be useful applications?

- A. Cracker
- B. Worm
- C. Trojan horses
- D. Key logger

31. If you wanted to add links to your web page - what tag would you use?

- A. `<a></a>`
- B. `<P>`
- C. `<Link>`
- D. `<div>`

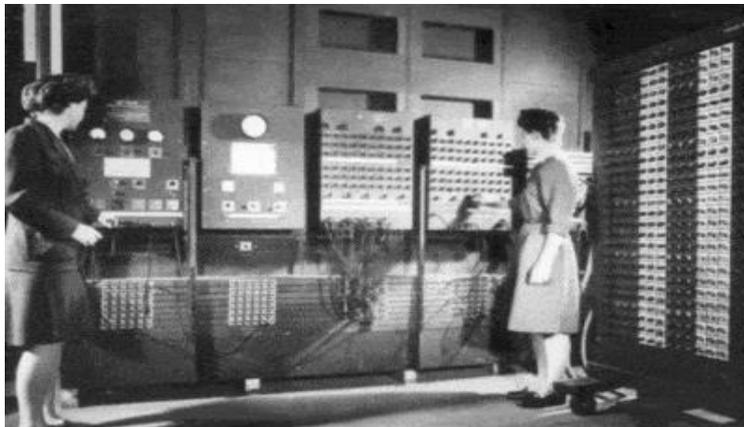
32. Mathematical function in Java that returns the rounded value down to the nearest integer

- A. `floor (a)`
- B. `ceil (a)`
- C. `abs (a)`
- D. `round (a)`

33. Which of these is not a peripheral, in computer terms?

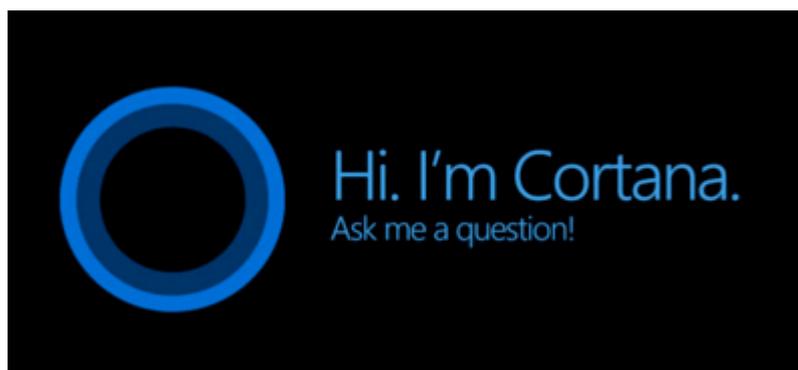
- A. Monitor
- B. motherboard
- C. mouse
- D. keyboard

34. What is the name of the computing device shown in the picture?



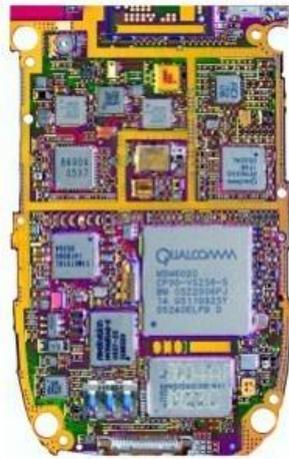
- A. ENIAC
- B. An old telephone system
- C. An electricity box - like those find on a house, but larger for a business.
- D. ENAIC

35. The latest version of windows (Windows 10) was released in:



- A. 2014
- B. 2016
- C. 2015
- D. 2013

36. This image is an example of a motherboard for \_\_\_\_\_?



- A. Calculator
- B. Mobile Phone (Cell Phone)
- C. Laptop
- D. Drone

37. What is the AutoComplete feature of MS Excel?

- A. It automatically completes the abbreviated words
- B. It completes text entries that match an existing entry in the same column
- C. It completes text and numeric entries that match an existing entry in the same column
- D. It completes text entries that match an existing entry in the same Worksheet

38. A cyber bully is someone who \_\_\_\_\_

- A. Chats with you online
- B. Invites you to a party through facebook
- C. Impersonate others online
- D. Uses the internet to get famous

39. In FTP, a file can be organized into records, pages, or a stream of bytes to attribute the \_\_\_\_\_

- A. data structures
- B. transmission modes
- C. None of the choices are correct
- D. file types

40. The intersection of a column and a row is called a \_\_\_\_\_.

Item ID	Item Type	Number Sold	Cost per Item	Total Income
DT189	Shoe	2	£8.99	£17.98
M6582	Shoe	8	£7.50	£60.00
RE911	Boot	2	£44.99	£89.98
RE245	Shoe	7	£19.50	£136.50
JS944	Shoe	5	£39.99	£199.95
M6582	Shoe	8	£7.50	£60.00
DF456	Shoe	6	£12.99	£77.94
LU383	Slipper	1	£14.99	£14.99
VE321	Sandal	3	£29.99	£89.97
DF456	Shoe	6	£19.99	£119.94
JK876	Shoe	5	£25.00	£125.00
RE245	Shoe	9	£19.50	£175.50
JS944	Shoe	5	£39.99	£199.95
LU383	Slipper	5	£14.99	£74.95
Weekly Income				£1,400.15

- A. gridline
- B. cell
- C. value
- D. formula

41. What coding would be used to define a header cell in an HTML table

- A. `th>Month</th>`
- B. `<td>Month</td>`
- C. `<h1>Month</h1>`
- D. `<h2>Month</h2>`

42. CSS stands for?

- A. Closed Source Style
- B. Crucial Style Sheets
- C. Cascading Style Sheets
- D. Corresponding Static Style

43. Which format usually works best for photos?

- A. JPEG
- B. DOC
- C. GIF
- D. WAV

44. Two or more computers connected together over a wide geographical area (e.g. county, country, globe). What type of network is this?

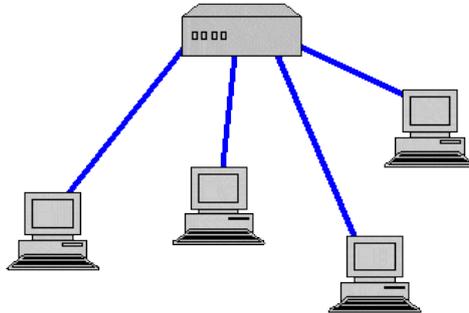
- A. LAN
- B. School Network
- C. WAN
- D. The Internet

45. What would be the formula to divide A2 by the sum of A1 and A3?

- A.  $=A1+A3/A2$
- B.  $=(A1+A3)/A2$
- C.  $=A2/(A1+A3)$
- D.  $=A2/A1+A3$

### SECTION C - ACHIEVERS SECTION

46. Given figure shows a type of network topology. Name the topology:



- A. Tree topology
- B. Bus Topology
- C. Ring topology
- D. Star topology

47. Give the output for the following Java program segment

```
float x = 3.54  
double y = 1.05  
System.out.println(Math.floor(x));  
System.out.println(Math.ceil(y));
```

- A. 3.50 and 1.00
- B. 3.00 and 1.00
- C. 4.00 and 2.00
- D. 3.00 and 2.00

48. A detailed flowchart is called as \_\_\_\_\_.

- A. Stack
- B. Macro
- C. Micro
- D. Union

49. What is the cell address for Mr. Bates 2007 Salary?

	A	B	C	D	E
1	Teacher's Salary				
2					
3	Teacher	2006 Salary	2007 Salary	2008 Salary	Total Salary
4	Mrs. Hathaway	29000	32000	60000	
5	Mrs. Schmidt	24000	33000	46000	
6	Mr. Galloway	28000	33500	34560	
7	Mrs. Reed	35000	41000	42510	
8	Mr. Plinkworth	43000	52000	53150	
9	Mrs. Satterwhite	26000	32250	39000	
10	Mr. Florez	73500	76900	78000	
11	Mrs. Santana	51000	64860	65600	
12	Mrs. Woodacre	38675	43870	45300	
13	Mr. Bates	54600	58890	60000	
14					
15	Highest Salary				
16	Lowest Salary				
17	Average Salary				
18	Median Salary				

- A. C
- B. 13
- C. 13C
- D. C13

50. Which of the following is not a type of spoofing?

- A. email
- B. ip
- C. application
- D. Domain