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ICO INTERNATIONAL CYBER OLYMPIAD	NICO NATIONAL INTERACTIVE SCIENCE OLYMPIAD	NIMO NATIONAL INTERACTIVE MATH OLYMPIAD	NBTO NATIONAL BIOTECHNOLOGY OLYMPIAD	IEO INTERNATIONAL ENGLISH OLYMPIAD	IGO INTERNATIONAL G.K. OLYMPIAD	BIFO BSE INTERNATIONAL FINANCE OLYMPIAD	NIPO NATIONAL IIT-PMT OLYMPIAD
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Level - 1 : All Level-1 successful* participants will get certificate, aptitude report and online subscription, and school toppers will be eligible for school hero medals.

Level - 2 : School toppers* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Besides selection for level-3, winner will get merit certificate, medals, educational CDs, laptop, scholarship and other prizes. There is no level 2 in Art, Cricket, Cyber, NIPO and Biotech.

Level - 3 : Toppers will qualify# for level 3-International level-where you will compete with students globally. Get selected for EHF's International Olympiad training camp. Only Indian organization giving students exposure to global competitions. Represent India & win laurels. Guidance by top scientists. Prizes ranges from cash (millions of \$), gadgets, foreign trips, publicity, fame, scholarships, Internships, conference participation and more.

* # See prospectus/website for details

EHF
**INTERNATIONAL
CYBER
OLYMPIAD**

ICO

10
Class

A1
Paper
Code

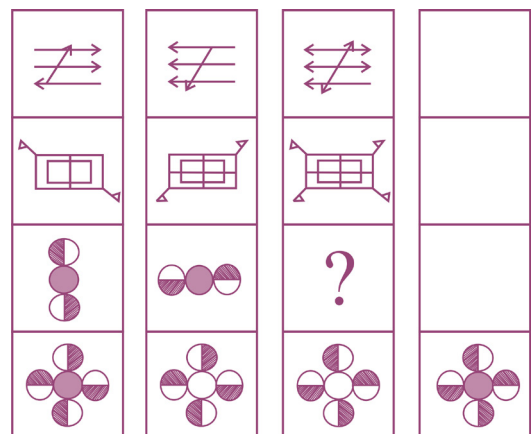
LEVEL - 1

1. You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**.
2. The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 25 Questions each to be answered in 40 minutes. The Question paper for classes 7 to 12 contains 50 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
3. Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER.**

MENTAL ABILITY

1. If COURAGE is coded as RECGOAU, how is ADVENTURE coded in that code?
(1) RSKMQRKLM (2) KRENUATVN
(3) NEARDUVTE (4) None of these
2. If South becomes North-East, North-East becomes West and so on, what will East become?
(1) North-West (2) North
(3) South-West (4) None of these
3. In a cricket series, India defeated Australia twice, West Indies defeated Indian twice, Australia defeated West Indies twice, India defeated New Zealand twice. Which country has won most number of times?
(1) West Indies (2) New Zealand
(3) India (4) None of these

4. Which of the answer figures: (1), (2), (3) and (4) complete the figure matrix?



(a) (b) (c) (d)

- (1) a (2) b
- (3) c (4) d

5. Three words which have something in common among themselves are given below. Choose the alternative which is most appropriate description about the three words.

Species: Genera: Family

- (1) These are biological terms
(2) These give information about living things for classification.
(3) These are traits of animal kingdom.
(4) None of these
6. A number series with one term missing, is given below. Choose the alternative that will continue the same pattern and fill in the blank space.
2, 5, 11, 32, (____), 194, 389
(1) 48 (2) 65
(3) 72 (4) None of these
7. Find the missing number: 16, 19, 22, 25, ?
(1) 28 (2) 26
(3) 20 (4) None of these
8. Point 'A' is located 8 miles South of B and C is located 6 miles West of A. What is the distance between C and B?
(1) 8 miles
(2) 9 miles
(3) 10 miles
(4) None of these
9. A watch gains 12 seconds every 3 hours, what time will it show at 10 A.M. on Tuesday if the watch is set right at 3 A.M. on Sunday?
(1) 9 hrs 58 minutes
(2) 9 hrs 57 minutes 8 seconds
(3) 10 hrs 3 minutes 40 seconds
(4) None of these
10. One morning after sunrise Vikram and Shailesh were standing in a lawn with their back towards each other. Vikram's shadow fell exactly towards left hand side. Which direction Shailesh was facing?
(1) East (2) West
(3) South (4) None of these

COMPUTERS

11. Which of the following is associated with error detector?
(1) Odd parity bit (2) Even parity bit
(3) Both (1) and (2) (4) None of these
12. Access time is
(1) seek time+latency time
(2) seek time
(3) seek time–latency time
(4) none of these
13. Software in computer
(1) Enhances the capabilities of the hardware machine
(2) Increase the speed of central processing unit
(3) Both of above
(4) None of these
14. Which of the following is problem oriented language?
(1) High level language
(2) Machine language
(3) Assembly language
(4) None of these
15. CD-ROM is a
(1) Semiconductor memory
(2) Memory register
(3) Magnetic memory
(4) None of these
16. The most commonly used standard data code to represent alphabetical, numerical and punctuation characters used in electronic data processing system is called
(1) ASCII (2) EBCDIC
(3) BCD (4) None of these
17. In which mode windows starts with only the core drivers & Services?
(1) Safe Mode (2) Quick Mode
(3) Normal Mode (4) None of these

18. In computer Architecture a Bus is _____ .
 (1) a collection of various software
 (2) a collection of various computers
 (3) a collection of shared communication wires
 (4) none of these
19. The chunks of a memory are known as
 (1) Sector (2) Page
 (3) Frame (4) None of these
20. Which of the following operating system reads and reacts in actual time?
 (1) Quick Response System
 (2) Real Time System
 (3) Time Sharing System
 (4) None of these
21. While coding in C/C++ Programming for “Call by Reference” we pass
 (1) Address of variable
 (2) Value of the variable
 (3) Both value and address
 (4) None of these
22. Which of the following can be software?
 (1) Routers (2) Firewalls
 (3) Modems (4) None of these
23. What is the full form of RAID?
 (1) Redundant Array of Independent Disks
 (2) Redundant Array of Important Disks
 (3) Random Access of Independent Disks
 (4) None of these
24. What is the correct syntax of the declaration which defines the XML version?
 (1) `< xml version = “1.0”/ >`
 (2) `< ?xml version = “1.0”? >`
 (3) `< ?xml version = “1.0”/ >`
 (4) None of these
25. In order to interpret XML documents one should
 (1) Use standardized tags
 (2) Have a document type definition which defines the tags
 (3) Define the tags separately
 (4) None of these
26. Which of the following is an attribute of `<Table>` tag?
 (1) SRC (2) LINK
 (3) CELLPADDING (4) None of these
27. Who designed ‘C++’ language?
 (1) Bjarne Stroustrup (2) Dennis Ritchie
 (3) Charles Babbage (4) None of these
28. Which of the following is considered as cyber crime?
 (1) Hacking (2) Worm Attack
 (3) Both (1) and (2) (4) None of these
29. Facebook, Twitter, Myspace, Google+ are examples of.
 (1) Chat software
 (2) Web mail application
 (3) Social networking
 (4) None of these
30. In terms of network security, ‘DOS is termed as
 (1) Disk Operating System
 (2) Denial of Service
 (3) Distributed Operating System
 (4) None of these
31. The output quality of a printer is measured by
 (1) DOT per sq. inch
 (2) Dot per inch
 (3) Dots printed per unit time
 (4) None of these
32. 1nibble equals to
 (1) 1bits (2) 2 bits
 (3) 4 bits (4) None of these
33. The radix of a computerized version of the number (+ 0.66 E-4) is
 (1) 6 (2) 4
 (3) 2 (4) None of these

34. In which of the flowchart symbols the statement “Is A > B” is placed?

- (1) Rectangular (2) Diamond
(3) Parallelogram (4) None of these

35. The errors which occur because of wrong program statement or command are called?

- (1) Run time errors (2) Logical errors
(3) Syntax errors (4) None of these

36. A subprogram is a part of a program which is written _____ in the main program but used at many places in the program.

- (1) twice (2) once
(3) 3 times (4) none of these

37. AND operation is used for logical _____.

- (1) addition (2) multiplication
(3) subtraction (4) none of these

38. The subscript of a variable may be a:

- (i) Number
(ii) Alphabetic character
(iii) Special character

- (1) (i) only (2) (i) or (ii) only
(3) (i) or (iii) only (4) none of these

39. ON ERROR GOTO statement is used to detect:

- (1) Logical errors (2) Execution errors
(3) Syntax errors (4) None of these

40. Name the error that you think to exist in the formula

$$C = C * D / C$$

- (1) Logical (2) Syntax
(3) Execution (4) None of these

INTERACTIVE SECTION

41. In a presentation, Sachin has to change all occurrence of the word ‘Calcutta’ with ‘Kolkata’. Which one of the following options is most appropriate to do the task:

- (1) Copy & Paste (2) Find & Replace
(3) Cut & Paste (4) None of these

42. A student wants to create a ‘Digital Story Teller’ on some storyline. He has downloaded some images. He wants to add background music, voice over and animation. Which one of the office tool he should use:

- (1) Word Processing Software
(2) Presentation Software
(3) Spreadsheet Software
(4) None of these

43. Marks scored by students in a class are entered in a spreadsheet along with their names as follows:

Name	Marks
Aman	445
Mohit	432
Neeta	456
Namita	421
Sunil	442
Trisha	487

If we want to have a Merit List of these students [i.e student’s marks appearing in descending order with corresponding names], which one of the following options will accomplish this task in one go:

- (1) Copy & Paste (2) Search
(3) Sort (4) None of these

44. It is an offence as per Cyber Laws to use a software without paying the License Fee to the copyright Owner Company if that software belongs to the class of:

- (1) Shareware
(2) Proprietary Software
(3) Open Source
(4) None of these

45. You need to provide email link of helpdesk on a website abc.com. The correct syntax is:

- (1) <MAIL>helpdesk@abc.com</MAIL>
(2) HelpDesk
(3) Help Desk

(4) None of these

46. Rekha is an IT manager. Her company has provided a laptop to her so that she can access office emails and work from home. She shared her computer login-Id and password with her son and allowed him to install educational computer games. We can say.

- (1) it is ok to share the password with her family members.
- (2) it is ethical since she is helping her kid in his education.
- (3) it is not ethical since laptop is provided to her for business use.
- (4) none of these

47. Study the following program and predict the output on execution:

```
10 FOR K = 1 TO 20
20 READ M (K)
30 NEXT K
40 DATA 20, 1, 8, 12, 13, 6, 19, 23
50 DATA 17, 5, 28, 14, 25, 11
60 END
```

- (1) BAD SUBSCRIPT ERROR IN 20
- (2) OK
- (3) DATA OUT OF BOUND IN 50
- (4) None of these

48. Number of circles drawn on execution by the following statements is:

```
10 SCREEN 2
20 FOR R = 40 TO 120 STEP 20
30 CIRCLE (150, 100), R
40 END
```

(1) 1

(2) 4

(3) 5

(4) None of these

49. Match the following non-geographical domains.

	Domain name	Description
a	.com	1. Educational institute. For e.g. ignou.edu
b	.edu	2. Government web sites. For e. g. whitehouse.gov
c	.gov	3. Military site. For e.g. nausena bharati.mil
d	.mil	4. A company or commercial organization. For e.g. microsoft.com

- (1) a-1, b-2, c-3, d-4
- (2) a-4, b-1, c-2, d-3
- (3) a-1, b-4, c-2, d-3
- (4) None of these

50. Which key lets you “lock” the alphabet keys so they produce only capital letters?



- (1) a
- (3) c

- (2) b
- (4) None of these



END OF THE EXAM