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ICO INTERNATIONAL CYBER OLYMPIAD	NISO 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

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.**

EHF
INTERNATIONAL
CYBER
OLYMPIAD

ICO

9
Class

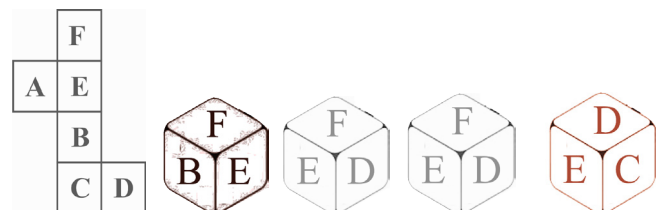
A1
Paper
Code

LEVEL - 1

MENTAL ABILITY

1. If in a certain language SURGEON is coded as HRITVLM, how is PHYSICIAN in that language?
(1) KSBHRXRZM (2) LTAKJYJUP
(3) IETWSOSHK (4) None of these
2. Letters showing the names of some fruits have been rearranged. Pick out the alternative number of the fruit which is richest source of Vitamin C?
(1) GAONM (2) PELAP
(3) RNEGOA (4) None of these
3. A grocery shop faces the West. From the backside of the shop, a man walks straight 100 metres then turn to the left and walks 100 metres again. Finally, he turns towards right and stops after walking 50 metres. Now which direction is a man from the starting point?
(1) South-West
(2) North-East

- (3) South-East
- (4) None of these
4. Figure (X) given to the left in the following question, is folded to form a box. Choose from amongst the alternatives (a), (b), (c) and (d), the boxes that are similar to the box formed.



- (X) (a) (b) (c) (d)
- (1) (a) only
 - (2) (b) only
 - (3) (a) and (c) only
 - (4) None of these

5. A pair of words whose words have certain relationship to each other is given below, this is followed by pair of words. Select a pair of words out of the pairs of words whose words has the same relationship to each other as the words of the original pair.

Rectangle : Octagon

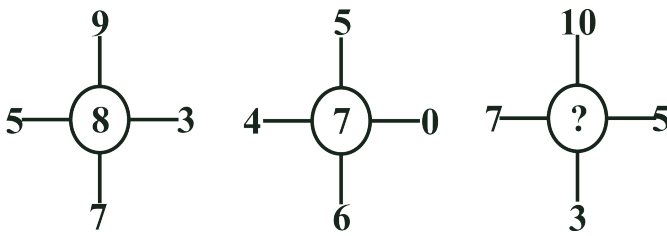
- (1) Pentagon: Heptagon (2) Cone: Sphere
 (3) Triangle: Hexagon (4) None of these

6. Find the wrong number in the following series:

1, 2, 4, 7, 13, 24, 54, 81

- (1) 13 (2) 24
 (3) 81 (4) None of these

7. Find the missing number



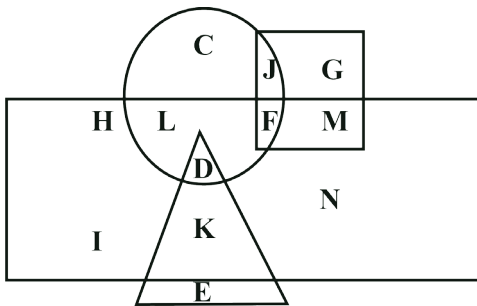
- (1) 12 (2) 9
 (3) 14 (4) None of these

8. Find the wrong term:

9, 13, 21, 37, 69, 132, 261

- (1) 37 (2) 132
 (3) 261 (4) None of these

Instruction for Q. No. 9 & 10: In the figure given below circle represents rural, rectangle represents male, triangle represents educated and square represents government employee. Study the figure and match the letters with the questions that follows:



9. Which letter represents neither a government employee nor an educated but is rural and not a male?

- (1) C (2) N
 (3) G (4) None of these

10. Which letter indicates rural people and who are government employee but not male?

- (1) F (2) H
 (3) J (4) None of these

COMPUTERS

11. A Kilobyte also referred to as KB, is equal to

- (1) 1000 bytes (2) 1024 bytes
 (3) 2048 bytes (4) None of these

12. A offline device is

- (1) a device which is not connected to CPU
 (2) a device which is connected to CPU
 (3) a device which is in breakdown stage
 (4) none of these

13. Communication circuits that transmit data in both directions but not at the same time are operating in

- (1) simplex mode (2) half-duplex mode
 (3) full-duplex mode (4) none of these

14. Memories in which any location can be reached in a fixed and short amount of time after specifying its address is called

- (1) sequential access memory
 (2) random access memory
 (3) secondary memory
 (4) none of these

15. The fastest type of memory is

- (1) tape (2) disk
 (3) semiconductor memory (4) none of these

16. Bar codes stores information using

- (1) punched holes (2) dots
 (3) thick and thin lines (4) none of these

17. Which technique is preferable for transferring a large amount of data to and from a memory in a short time?

- (1) DMA (2) Interrupt driven I/O
 (3) programmed I/O (4) none of these

18. Which of the following component of a computer system is the most important to a data base management system?

- (1) Mouse
 (2) High resolution video display
 (3) High speed, large capacity disk
 (4) None of these

19. When the same data field is stored more than once in a file, then it leads to

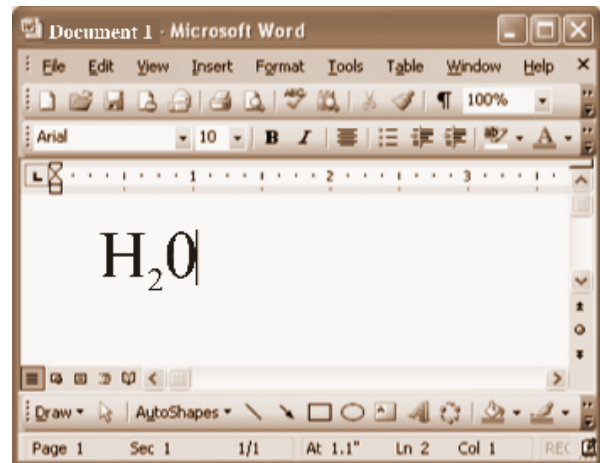
- (1) data redundancy (2) data inconsistency
(3) data dependancy (4) none of these
20. Technology no longer protected by copyright, available to everyone, is considered to be:
(1) Proprietary (2) Open
(3) Experimental (4) None of these
21. After a picture has been taken with a digital camera and processed appropriately, the actual print of the picture is considered.
(1) data (2) output
(3) input (4) none of these
22. The PC (personal computer) and the Apple Macintosh are examples of two different:
(1) platforms (2) applications
(3) programs (4) none of these
23. Servers are computers that provide resources to other computers connected to a:
(1) network (2) mainframe
(3) super computer (4) none of these
24. _____ is the science revolving around the use of nanostructures to build devices on an extremely small scale.
(1) Micro-technology (2) Nanotechnology
(3) Computer forensics (4) None of these
25. Speed of Laser Printer is measured in
(1) LPM (2) PPM
(3) DPI (4) None of these
26. What is Unicode?
(1) Standard Font
(2) Software
(3) Character Encoding System
(4) None of these
27. Which of the following memories needs refresh?
(1) DRAM (2) SRAM
(3) ROM (4) None of these
28. 1 nibble equals to
(1) 1bits
(2) 2 bits
(3) 4 bits
(4) None of these
29. Physical connection between Microprocessor Memory and other parts is called _____ .
(1) Path (2) Hub
(3) Address bus (4) None of these
30. Which shortcut key inserts a new slide in current presentation?
(1) Ctrl + N (2) Ctrl + M
(3) Ctrl + S (4) None of these
31. To insert a hyperlink in a slide
(1) Choose Insert >> Hyperlink
(2) Press Ctrl + K
(3) Both (1) and (2)
(4) None of these
32. Which of the following statement is true?
(1) You can insert text boxes from drawing toolbar in Powerpoint
(2) You cannot insert text boxes from drawing toolbar in Powerpoint
(3) Text boxes are provided when you choose a layout and can't be inserted afterwards
(4) None of these
33. 'BAT' extension refers usually to what kind of file?
(1) Compressed Archive file
(2) System file
(3) Audio file
(4) None of these
34. _____ language consists of short phrases of alphanumeric symbols called mnemonics.
(1) Machine (2) Assembly
(3) Pascal (4) None of these
35. Pentium II is _____ generation computer.
(1) Fourth (2) Second
(3) Fifth (4) None of these
36. A modern computer is an electronic device.
(1) Logical device (2) Data device
(3) Data processing (4) None of these
37. _____ is a system of worldwide computer network for exchanging information.
(1) Internet
(2) WAN
(3) LAN
(4) None of these

38. How many layers are in the TCP/IP model?
 (1) 4 layers (2) 5 layers
 (3) 6 layers (4) None of these
39. In CPP Programming ‘++’ is _____ operator.
 (1) Increment (2) Decrement
 (3) Assigning (4) None of these
40. Bring a page into memory only when it is needed is called
 (1) Demand Memory (2) Demand Paging
 (3) Page Fault (4) None of these

INTERACTIVE SECTION

41. Surgeons can perform delicate operations by manipulating devices through computers instead of manually. This technology is known as:
 (1) Robotics
 (2) Computer forensics
 (3) Simulation
 (4) None of these
42. How many types of buses are there?
 (1) 1 (2) 2
 (3) 3 (4) None of these
43. An electronic digital computer is a vast assembly of simple logic gates and memory cells.
 (1) True (2) False
 (3) Can't say (4) None of these
44. During the booting process, the operating system is loaded in the:
 (1) Motherboard (2) RAM
 (3) CPU (4) None of these
45. How many colours are displayed by CGA monitor?
 (1) 16 (2) 4
 (3) 20 (4) None of these
46. The software which can translate the scanned document into text is:
 (1) OCR (2) ALU
 (3) CPU (4) None of these

47. Sunita is logging into her gmail account and one of her friends is trying to keep in and figure out her password. Which of the following issues is being infringed?
 (1) Plagiarism (2) Privacy
 (3) Intellectual Rights (4) None of these
48. In a presentation document, in order to type ‘2’ in the mathematical expression $A.X^2 + B.X + C = 0$, which one of the following options you would use?
 (1) Subscript
 (2) Italics Style
 (3) Superscript
 (4) None of these
49. What is the use of Bridge in Network?
 (1) To connect LANs
 (2) To separate LANs
 (3) To control Network Speed
 (4) None of these
50. Dharmesh is making his science project. During typing the project, there is a word “H₂O”. He does not know how to write 2 in the MS-word, with which one of the following option he would be able to write as shown in figure.



- (1) Go to in font format menu and click on Subscript.
 (2) Go to cell and click on Subscript
 (3) Go to in font format menu and click on superscript.
 (4) None of these



END OF THE EXAM