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ICO INTERNATIONAL CYBER OLYMPIAD	NISO NATIONAL INTERACTIVE SCIENCE OLYMPIAD	NIMO NATIONAL INTERACTIVE MATHS OLYMPIAD	NBTO NATIONAL BIOTECHNOLOGY OLYMPIAD	IEO INTERNATIONAL ENGLISH OLYMPIAD	IGO INTERNATIONAL G.K. OLYMPIAD	BIFO BSE INTERNATIONAL FINANCE OLYMPIAD
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INTERNATIONAL CYBER OLYMPIAD

ICO

11
Class

A1
Paper
Code

LEVEL - 1



Google
Science
Fair



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 G.K. 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. Level 3 is in Maths, Science & Cyber only.

*# See prospectus/website for details

- You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**. **STUDENTS OF CLASS 1 & 2 HAVE TO UNDERLINE** THE CORRECT ANSWER IN THE QUESTION PAPER ITSELF. THEY ARE NOT REQUIRED TO USE THE RESPONSE SHEET (OMR). THEY HAVE TO FILL THEIR NAME, ROLL NUMBER, CLASS, SCHOOL NAME IN THE SPACE PROVIDED IN THE QUESTION PAPER.
- 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.
- 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 except for classes 1 and 2.

SECTION A : MENTAL ABILITY

- If South becomes North-East, North-East becomes West and so on, what will East become ?
(1) North-West (2) South-West
(3) South (4) None of these
- Two poles of heights 10m and 15 m stand on a plane ground. If the distance between their feet is 12m, the distance between their top is
(1) 12m (2) 12.5m
(3) 13m (4) None of these
- Flight to Delhi leaves every 5 hours. At the information counter a person learnt that the flight took off 25 minutes before. If the time now is 10:45am, what is the time for the next flight?
(1) 2:20 a.m (2) 3:20 p.m
(3) 3:30 a.m (4) None of these
- If BAT is coded as 283, CAT is coded as 383 and ARE is

coded as 801, then the code for BETTER is

- 213310 (2) 213301
(3) 123301 (4) None of these
- In a group of six person F is richer than E but not as rich as A. B is richer than C and D but not as rich as A. E is richer than D, E and C are equally rich. Who is the poorest among them ?
(1) C (2) E
(3) D (4) None of these
- Ram is Taller than Shyam. Rahim is taller than Ram. Karim is taller than Shokat but Smaller than Shyam. Who is the tallest?
(1) Rahim (2) Ram
(3) Karim (4) Shyam
- BTO, DSQ, FRS, HQU, ____
(1) IPX (2) JPW
(3) CPW (4) JRW

8. Veena who is the sister-in-law of Ashok, is the daughter-in-law of Kalyani, Dheeraj is the father of Rajan who is the only brother of Ashok. How Kalyani is related to Ashok?
 (1) Mother-in-law (2) Aunt
 (3) Wife (4) None of these
9. Pointing to a lady in the photograph Kaushal said, "She is the daughter of the daughter of the only son of my grandfather."
 How is the lady related to Kaushal?
 (1) Sister (2) Maternal aunt
 (3) Niece (4) Cousin
10. If the following series is written in the reverse order and the alternate letter are deleted from it then which letter will divide the new series into two equal parts ?
 ABCDEFGHIJKLMNOPQRSTUVWXYZ
 (1) N (2) P
 (3) L (4) M

SECTION-B : COMPUTER

11. DNS is the abbreviation of
 (1) Domain Name System
 (2) Dynamic Name System
 (3) Domain Network Service
 (4) None of these
12. In which year was chip used inside the computer for the first time
 (1) 1964 (2) 1975
 (3) 1995 (4) None of these
13. Which of the following resources must be protected by the operating system?
 (1) I/O (2) Memory
 (3) Both (1) and (2) (4) None of these
14. You are editing an worksheet that you had previously saved. If you want to save the edited sheet without losing the original one, which command should you use?
 (1) Edit (2) Save
 (3) Save As (4) None of these
15. "Ctrl + Delete" is used to
 (1) Delete the word just after the cursor
 (2) Delete the word just before the cursor
 (3) Delete the single letter just after the cursor
 (4) None Of These
16. "Ctrl + Left Arrow" is used to
 (1) Moves the cursor beginning of the Line
 (2) Moves the cursor one word left
 (3) Moves the cursor one paragraph up
 (4) None Of These
17. Ctrl + M ?
 (1) New Document (2) Close Document
 (3) Left Indent (4) None of these
18. Ctrl + Q ?
 (1) Paragraph formatting (Line Space and Paragraph Space)
 (2) Close Word Application without saving Document
 (3) Print Whole Document without confirmation
 (4) None Of These
19. What is the keyboard shortcut for creating a chart from the selected cell range?
 (1) F2 (2) F4
 (3) F11 (4) None of these
20. Which is not the function of the Operating System?
 (1) Memory management
 (2) Application management
 (3) Virus Protection
 (4) None Of These
21. Which of the following is valid IP address?
 (1) 984.12.787.76 (2) 192.168.56.11
 (3) 192.168.321.10 (4) None of these
22. <TITLE> ... </TITLE> tag must be within _____
 (1) Title (2) Form
 (3) Header (4) None of these
23. Which tag is used to display the large font size?
 (1) <LARGE></LARGE>
 (2) <BIG></BIG>
 (3) < SIZE ></SIZE>
 (4) None of these
24. What is the full form of HTTP?
 (1) Hyper text transfer protocol
 (2) Hyper text transfer package
 (3) Hyphenation text test program
 (4) None of these

25. Outlook Express is a _____
 (1) E-Mail Client (2) Browser
 (3) Search Engine (4) None of these
26. In a datasheet, what does each row represent?
 (1) Record (2) Field
 (3) Database (4) None of these
27. Which type of field is incremented automatically?
 (1) Auto Elevate (2) Auto Number
 (3) Auto Increment (4) None of these
28. 'OS' computer abbreviation usually means ?
 (1) Open Software (2) Operating System
 (3) Unix (4) None of these
29. Gutter position can be set in following positions
 (1) Left & Right (2) Left & Top
 (3) Left Only (4) None of these
30. On the Task bar the time is shown in the...?
 (1) Start menu
 (2) Notification area or Tray
 (3) Desktop
 (4) None of these.
31. What is the full form of TCP/IP?
 (1) Transport control protocol / internet protocol
 (2) Transmission control protocol / internet protocol
 (3) Telephone call protocol / international protocol
 (4) None of these
32. To select text by shading as you drag the mouse arrow over the text is known as...
 (1) Clip art (2) To highlight
 (3) To fetch (4) None of these
33. A program that neither replicates or copies itself, but does damage or compromises the security of the computer. Which 'Computer Virus' it is?
 (1) Joke Program (2) Worm
 (3) Trojan (4) None of these
34. An assembler is
 (1) Programming language dependent
 (2) Syntax dependant
 (3) Machine dependant.
 (4) None of these
35. Protecting the data from unauthorized access is called
 (1) Data inaccessibility (2) Data encryption
 (3) Data security (4) None of these
36. The software generally used for what-if analysis is related to
 (1) Word-processing
 (2) Graphics
 (3) Database management
 (4) None of these
37. Which of the following functions of a computer is wrong?
 (1) It obtains data from an input device
 (2) It generates the program on its own.
 (3) It takes processing steps from the list of instructions called program
 (4) None of these
38. 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
39. Transistor was invented in
 (1) 1947 (2) 1948
 (3) 1945 (4) None of these
40. _____ is not a utility program
 (1) Debugger (2) Editor
 (3) Spooler (4) None of these

INTERACTIVE SECTION

41. What gets printed?
 $x = 4.5$
 $y = 2$
`print x//y`
 (1) 2 (2) 2.25
 (3) 9 (4) 20.25
42. What gets printed?
`kvps = {"user", "bill", "password", "hillary"}`
`print kvps['password']`
 (1) User (2) Bill
 (3) Password
 (4) Nothing. Python syntax error

43. Which numbers are printed?

```
for i in range(2):  
    print i  
for i in range(4,6):  
    print i
```

- (1) 2, 4, 6 (2) 0, 1, 2, 4, 5, 6
(3) 0, 1, 4, 5 (4) 0, 1, 4, 5, 6, 7, 8, 9

44. What sequence of numbers is printed?

```
values = [1, 2, 1, 3]  
nums = set(values)  
def checkit(num):  
    if num in nums:  
        return True  
    else:  
        return False  
for i in filter(checkit, values):  
    print i
```

- (1) 1 2 3 (2) 1 2 1 3
(3) 1 2 1 3 1 2 1 3 (4) 1 1 1 1 2 2 3 3

45. What sequence of numbers is printed?

```
values = [2, 3, 2, 4]  
def my_transformation(num):  
    return num ** 2  
for i in map(my_transformation, values):  
    print i
```

- (1) 2 3 2 4 (2) 4 6 4 8
(3) 1 1.5 1 2 (4) 4 9 4 16

46. What numbers get printed

```
import pickle  
class account:  
    def __init__(self, id, balance):  
        self.id = id  
        self.balance = balance  
    def deposit(self, amount):  
        self.balance += amount  
    def withdraw(self, amount):  
        self.balance -= amount  
myac = account('123', 100)  
myac.deposit(800)
```

```
myac.withdraw(500)  
fd = open("archive", "w")  
pickle.dump(myac, fd)  
fd.close()  
myac.deposit(200)  
print myac.balance  
fd = open("archive", "r")  
myac = pickle.load(fd)  
fd.close()  
print myac.balance
```

- (1) 500 300 (2) 500 500
(3) 600 400 (4) 600 600

47. What gets printed by the code snippet below?

```
import math  
print math.floor(5.5)
```

- (1) 5 (2) 5.0
(3) 5.5 (4) 6

48. What gets printed by the code below?

```
class Person:  
    def __init__(self, id):  
        self.id = id  
obama = Person(100)  
obama.__dict__['age'] = 49  
print obama.age + len(obama.__dict__)
```

- (1) 1 (2) 2
(3) 50 (4) 51

49. What gets printed?

```
x = "foo" y = 2  
print x + y
```

- (1) foo (2) foo foo
(3) 2 (4) An exception is thrown

50. Which of the following memory has the shortest access time?

- (1) Virtual Memory (2) External Memory
(3) Register (4) None of these



END OF THE EXAM