

International Olympiad Foundation

Certifying Talents Across World



Question Paper & Answer Sheet 2020-21

CLASS -11



IFCO

International Foundation

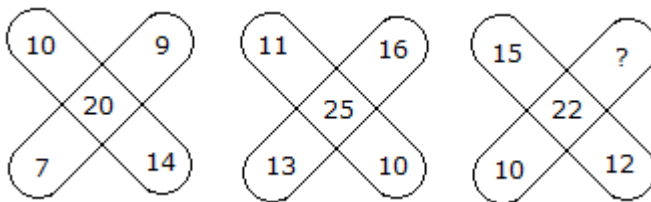
Cyber Olympiad

1. Arrange the words given below in a meaningful sequence.

1. Leaves 2. Branch 3. Flower 4. Tree 5. Fruit

- A. 4, 3, 1, 2, 5
- B. 4, 2, 5, 1, 3
- C. 4, 3, 2, 1, 5
- D. 4, 2, 1, 3, 5

2. Which number will replace the question mark(?)



- A. 6
- B. 7
- C. 8
- D. 9

3. A, B, C, D, E and F are members of a club. There are two married couples in the group. A is the brother of D's Husband. C is the president of Women's Association. F is a Sitar Player, and Bachelor. B's wife is not a member of the Club. Four of them belong to the same family. B and F are colleagues in the club. How is F related to B?

- A. Father
- B. Wife
- C. Husband
- D. Not possible to determine

4. In a certain code, MEN is written as ABC and DARK is written as LSTZ. How can READ be written in this code?

- A. TCSL
- B. TBSL
- C. TASL
- D. TLSL

5. In a certain code language,

'134' means 'good and tasty';
'478' means 'see good pictures'
'729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

- A. 4
- B. 9
- C. 8
- D. 7

6. In the following question, one term in the number series is wrong. Find the wrong term.

3, 8, 15, 24, 35, 49, 63

- A. 24
- B. 49
- C. 63
- D. None of these

7. Aman runs towards North for 10 m, turns left and runs another 20 m. He turns right and walks slowly for 10 m. Then he again turns right, walks another 50 m and stops. In which direction is he with respect to his initial position?

- A. South-East
- B. North-East
- C. North-West
- D. South-West

8. Here are some words translated from an artificial language.

slar means jump
slary means jumping
slarend means jumped

Which word could mean "playing"?

- A. clargy
- B. clargslarend
- C. ellaclarg
- D. slarmont

9. Choose the correct option from the four alternatives

Statements: All lions are tigers. Some tigers are horses.

Conclusions: I. Some horses are lions.

II. No horse is lion.

- A. Only conclusion (I) is correct.
- B. Only conclusion (II) is correct.
- C. Either I or II is correct.
- D. Neither I nor II is correct.

10. Complete with correct option

NOPQ : MLKJ : HIJK : ____? ____

- A. DEFG

- B. EFGH
- C. FEDC
- D. GFED

11. Three of the following four are same in a certain way and hence form a group. Find out the one which does not belong to that group.

- A. Rubber
- B. Fur
- C. Silk
- D. Leather

12. Deadpool is standing in between which of the following pairs?

- **Antman, Batman, Cyclops, Deadpool, Electro, Falcon, and Gambit are standing near a wall and all of them are facing east.**
- **Cyclops is on the immediate right of Deadpool.**
- **Batman is at an extreme end and has Electro as his neighbor.**
- **Gambit is between Electro and Falcon.**
- **Deadpool is standing third from the south end.**

- A. Antman-Cyclops
- B. Cyclops-Falcon
- C. Gambit-Electro
- D. Batman-Falcon

13. If 'blue' means 'green', 'green' means 'yellow', 'yellow' means 'orange', 'orange' means 'black', 'black' means 'white', 'white' means 'red', 'red' means 'pink', 'pink' means 'brown', 'brown' means 'grey', then what is the color of human blood?

- A. Black
- B. Red
- C. White
- D. Orange

14. A group of 210 students appeared in some test. The mean of $\frac{1}{3}$ rd of students is found to be 60. The mean of the remaining students is found to be 78. The mean of the whole group will be:

- A. 74
- B. 66
- C. 70
- D. 72

15. Find the next term in the series: B2E, D5H, F12K, H27N, ____? ____

- A. J56I
- B. I62Q
- C. Q62J
- D. J58Q

16. Which of the following is first 64 bit operating system?

- A. Windows 95
- B. Linux
- C. Mac OS
- D. Windows 2000

17. Which of the following operators has its associativity from right to left?

- A. +
- B. //
- C. %
- D. **

- A. A
- B. B
- C. C
- D. D

18. What will be the output in Python?

```
x = 0
for i in range (10):
    for j in range (-1, -10, -1):
        x += 1
    print (x)
```

- A. 99
- B. 90
- C. 100
- D. 101

19. What will be the output of following python statement?

```
print (min(max((False,-3,-4),2,7)))
```

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

20. Select which is true for for loop

- A. Python's for loop used to iterates over the items of list, tuple, dictionary, set or string
- B. else clause of for loop is executed when the loop terminates naturally
- C. else clause of for loop is executed when the loop terminates abruptly
- D. We use for loop when we want to perform a task indefinitely until a particular condition is met

21. Who had proposed the principle of modern computer in his 1936 paper?

- A. Alan Turing
- B. Geoff Tootill
- C. Grace Hopper
- D. Charles Babbage

22. What is the meaning of SMART commands in a system maintenance?

- A. Software-Monitoring, Analysis and Reporting Technology
- B. Self-Monitoring, Analysis and Reporting Technology
- C. Specific -Monitoring Attainable Realistic Technology
- D. None of these

23. Panther (10.3), Jaguar (10.2), Puma (10.1), and Cheetah (10.0) are examples of _____

- A. Android OS
- B. Open Source OS
- C. Mac OS
- D. Windows OS

24. To generate a random float number between 20.5 to 50.5, which function of a random module I need to use?

- A. `random.random(20.5, 50.5)`
- B. `random.uniform(20.5, 50.5)`
- C. `random.randrange(20.5, 50.5)`
- D. `random.randfloat(20.5, 50.5)`

- A. A
- B. B
- C. C
- D. D

25. Who invented the World Wide Web?

- A. Bill Gates
- B. Tim Berners-Lee
- C. Robert Tappan
- D. Steve Jobs

26. A collection of 4 bits is called

- A. nibble
- B. byte
- C. word
- D. double word

27. Choose the correct option

`k = [print(i) for i in my_string if i not in "aeiou"]`

- A. prints all the vowels in my_string
- B. prints all the consonants in my_string

- C. prints all characters of my_string that aren't vowels
- D. prints only on executing print(k)

28. Which among the following is the correct order in which popular company Apple released them?

- A. Mac , iPod, iPad, iPhone
- B. Mac, iPad, iPod, iPhone
- C. Mac , iPhone, iPod, iPad
- D. Mac, iPod, iPhone, iPad,

29. As a person working in internet banking environment, why you should be aware of the "Dictionary attack"?

- A. It is used to inject worms and virus
- B. It is used to determine password
- C. It is used to access customer account to determine other details
- D. It is used to steal information from credit card

30. Working of the WAN generally involves

- A. Telephone Lines
- B. Microwaves
- C. Satellites
- D. All the Above

31. Which of the following operation is used if we are interested in only certain columns of a table?

- A. PROJECTION
- B. SELECTION
- C. UNION
- D. JOIN

32. Compiler generates ____ file

- A. Executable code
- B. Object code
- C. Assembly code
- D. None of the above.

33. The binary equivalent of the decimal number 10 is _____

- A. 0010
- B. 10
- C. 1010
- D. 010

34. A _____ gate gives the output as 1 only if all the inputs signals are 1.

- A. AND
- B. OR
- C. EXOR
- D. NOR

35. Who deploy Malwares to a system or network?

- A. Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
- B. Criminal organizations, White hat hackers, malware developers, cyber-terrorists

- C. Criminal organizations, Black hat hackers, software developers, cyber-terrorists
- D. Criminal organizations, gray hat hackers, Malware developers, Penetration testers

36. A logic bomb that was created to erupt on Michelangelo's birthday is an example of a:

- A. Time-related bomb sequence.
- B. Virus.
- C. Time related bomb.
- D. Trojan horse.

37. PARAM is an example of:

- A. Super computer
- B. PC
- C. Laptop
- D. PDA

38. Internet service was made available on mobile phone in _____ year

- A. 1982
- B. 1999
- C. 1991
- D. 1978

39. Which of the following statements is true for Solid State Drives (SSDs)?

- A. They do not contain spinning platters
- B. They use vacuum tubes for storing data
- C. They require latency time at the time of transferring data
- D. All of the above

40. The main measure of the efficiency of the algorithm

- A. Process and memory
- B. Time and space
- C. Date and space
- D. Complexity and capacity

41. During the normal PC boot process, which of the following is active first?

- A. RAM BIOS
- B. ROM BIOS
- C. CMOS
- D. Hard disk information

42. The Binary Coded Decimal (BCD) uses _____

- A. 6 bits
- B. 8 bits
- C. 16 bits
- D. 32 bits

43. Analog computer works on the supply of _____

- A. Physical strength
- B. Natural strength
- C. Magnetic strength
- D. Continuous electrical pulses

44. To build the routing table, _____ method use preprogrammed definitions representing paths through the network.
- A. Static routing
 - B. Dynamic routing
 - C. Hybrid routing
 - D. Automatic routing
45. Which short cut key is used to bring up the "Find and Replace" dialog box in Ms Word?
- A. Ctrl + J
 - B. Ctrl + N
 - C. Ctrl + H
 - D. Ctrl + M
46. The elements <DIV> and have the following characteristics
- A. Element <DIV> inherits properties defined for in a stylesheet
 - B. Elements and <DIV> define content to be inline or block-level
 - C. <DIV> and are used as alternatives for the element <P>
 - D. <DIV> is used inside element <P>.
47. Two differences between actual parameter and formal parameter are:
1. Actual parameter is defined in function header while formal parameter is used during the function call
 2. Formal parameter is defined in function header while actual parameter is used during the function call
 3. Formal parameter can either be constant / expression / variable while actual parameter is always a variable
 4. Actual parameter can either be constant / expression / variable while formal parameter is always a variable
- A. 1 and 2
 - B. 1 and 3
 - C. 2 and 3
 - D. 2 and 4
48. Difference between computer Virus and computer Worm
- A. Computer Virus needs a network while computer Worm needs a host
 - B. Computer Virus needs a host while computer Worm needs a network
 - C. Computer Virus is self-replicative whereas computer Worm is not self-replicative
 - D. Computer Virus is not self-replicative whereas computer Worm is self-replicative
49. Which protocol is used for MS Teams Live event?
- A. VoIP
 - B. Wi-Fi
 - C. Wi-Max
 - D. HTTPS
50. BIOS Stores following in CMOS
- A. Date, Time, System Configuration
 - B. Operating System
 - C. Date and Time only
 - D. System Configuration Only



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ANSWER SHEET 2020-21

Question No.	Answer	Question No.	Answer
1	D	26	A
2	B	27	C
3	D	28	A
4	B	29	B
5	C	30	D
6	B	31	A
7	B	32	B
8	A	33	C
9	C	34	A
10	D	35	A
11	A	36	C
12	B	37	A
13	C	38	B
14	D	39	A
15	D	40	B
16	B	41	B
17	D	42	A
18	B	43	D
19	A	44	A
20	B	45	C
21	A	46	B
22	B	47	D
23	C	48	B
24	B	49	A
25	B	50	A

