



## World Mathematics Olympiad (WMO)

### Standard: VI

#### ☑Instructions:

*There are three Sections and total 40 questions.  
Attempt all the questions.  
There is no negative marking for the wrong answers.  
Time: 90 minutes*

### Doers Section

No. of Questions:30  
Marks for each question: 2

- Which is the greatest number
  - 10459
  - 10954
  - 10945
  - 10495
- Using digits 6, 7, 8 and 9 which of the following greatest number can be made
  - 6789
  - 9768
  - 9867
  - 9876
- Which one is one million
  - 10000
  - 100000
  - 1000000
  - 10000000
- Which is the greatest six-digit number which can be made using digits 2 and 3 equal times
  - 323232
  - 232323
  - 333222
  - 222333
- Arrange the following numbers in descending order: 4000,8500,50600,7235.
  - 50600,8500,7235,4000
  - b. 50600,8500,4000,7235
  - c. c 50600,7235,8500,4000
  - d. d 50600,7235,4000,8500

6. The difference of the greatest and smallest 3-digit numbers is  
a. 888  
b. 777  
c. 666  
d. 999

7. Which of the following numbers is not a factor of 24?  
a. 2  
b. 3  
c. 4  
d. 5

8. Which of the following number is not a multiple of 5?  
a. 15  
b. 20  
c. 30  
d. 33

9. Which is the smallest prime number  
a. 1  
b. 2  
c. 3  
d. 4.

10. Which of the following statements is true?  
a. The product of two even numbers is always even.  
b. The sum of three odd numbers is even.  
c. All prime numbers are odd.  
d. Prime numbers do not have any factors.

11. Two lines in a plane which never intersect each other are  
a. perpendicular  
b. intersecting lines  
c. equal  
d. equidistant

12. Number of lines which can be drawn from one point:  
a. one  
b. infinite  
c. two  
d. zero

13. A triangular prism has how many faces  
a. 5  
b. 7  
c. 8  
d. 9

14. A 90 degree angle is called
- right angle
  - obtuse angle
  - acute angle
  - straight angle
15. A triangle having sides of 5cm, 5cm and 5 cm is a
- Scalene triangle
  - equilateral triangle
  - isosceles triangle
  - none of the above
16. While subtracting two integers, the sign of the answer will depend upon
- Smaller number
  - Their difference
  - Their sum
  - Greater numerical value
17. what is the value of  $(-7) + (-6)$
- 13
  - 13
  - 1
  - 1
18. Which is not an integer
- 1
  - 2.5
  - 3
  - 0
19. What is the predecessor of (-95)
- 94
  - 96
  - 94
  - 95
20. 65 km and 250 m can be expressed in km as
- 65.25
  - 6.525
  - 652.5

d 65. 1

21. What is the value of  $\frac{1}{10000} \times 7$

- a. 0.007
- b. 0.0007
- c. 0.00007
- d. 70000

22. What is the area of a square having one side of **a cm**

- a.  $2a \text{ cm}^2$
- b.  $a^2 \text{ cm}^2$
- c.  $a^2 \text{ cm}$
- d. Cannot say

23. What is the coefficient of y in  $2x+y=-3$

- a. 2
- b. 1
- c. 3
- d. 0

24. One box has 16 apples. How many apples will be there in n boxes?

- a.  $16n$
- b.  $\frac{16}{n}$
- c.  $\frac{n}{16}$
- d.  $16^n$

25. If Mona is y years old now, what was her age 6 years ago?

- a.  $y-6$
- b.  $y+6$
- c.  $6y$
- d. Cannot say

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26. Complete the series

5n, 9n, 13n, 17n, ----

- a. 22n
- b. 21n
- c. 23n
- d. 19n

27. Select the same analogy as **PETAL: FLOWER**

- a. Milk: Cow
- b. Cat: Dog
- c. Engine: Car
- d. Ball: Game

28. Which is not correct

- a. All even numbers are integers
- b. Odd numbers are always divisible by 3
- c. Even numbers are always divisible by 2
- d. Division of negative numbers are possible.

29. There are 50 boys and 20 girls in a class. The ratio of the number of girls to the number of boys is

- a. 2:3
- b. 3:2
- c. 2:5
- d. 3:5.

30. A circle may have how many lines of symmetry

- a. 1
- b. 2
- c. 4
- d. Infinite

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## Executors Section

No. of Questions: 5  
Marks for each question: 3

31. Number of right angles turned by the hour hand of a clock when it goes from 3 to 6.
- 1
  - 2
  - 3
  - 4
32. The length and breadth of a rectangular park are 50 m and 40 m respectively. Find the ratio of the length to the breadth of the park.
- 4:5
  - 4:1
  - 5:1
  - 5:4.
33. The cost of 8 bikes is \$ 8000. The cost of 1 bike is
- \$1000
  - \$ 2000
  - \$ 4000
  - \$ 6000.
34. The triangle having two equal sides is a
- exterior angle
  - equilateral triangle
  - isosceles triangle
  - scalene triangle
35. A triangle can have how many maximum number of right angles
- 1
  - 2
  - 3
  - 4

## Performers Section

No. of Questions: 5  
Marks for each question: 5

36 match the following

A	The integer, which is neither positive nor negative	i	0
B	The greatest negative integer	ii	-2
C	The smallest positive integer	iii	1
D	The predecessor of the greatest negative integer	iv	-1

Options

- a. A- i, B-ii, C-iii, D-iv
  - b. A-ii, B-iv, C-i, D-iii
  - c. A-i, B-iv, C-iii, D-ii
  - d. A-iv, B-iii, C-ii, D-i
37. The cost of a pen is \$ 10. The cost of a pencil 1 is \$ 2. How many times of the cost of a pencil is the cost of a pen?
- a. 5 times
  - b. 2 times
  - c. 10 times
  - d. none of these.

38. What is LCM of 36 and 44

- a. 396
- b. 442
- c. 942
- d. 160

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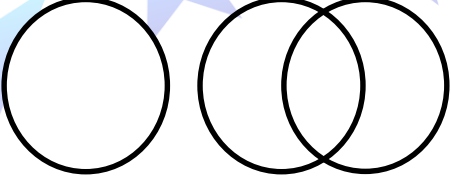

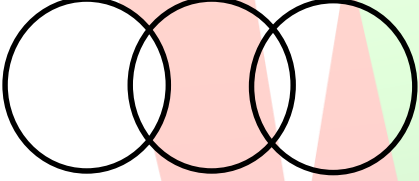
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39. If the area of a rectangle is increased, its perimeter

- a. will always increase
- d. will always decrease
- c. may increase or decrease
- d. none of the above

40. Which one represents even numbers, odd numbers and natural numbers?

a.	
b.	
c.	
d.	