

# SMART SOCIETY INTERNATIONAL MATHEMATICS OLYMPIAD (SSIMO)



## Organized by

Department of Basic Science and Humanities  
INSTITUTE OF ENGINEERING & MANAGEMENT,  
IEM-UEM GROUP and SMART SOCIETY, USA

**TOTAL QUESTIONS: 35**

**DURATION: 1 HOUR**

## INSTRUCTIONS TO THE CANDIDATES:

1. The following question paper is divided into 3 sections
  - a) Section A (Logical Reasoning) :10 Questions
  - b) Section B (Mathematical reasoning) :10 Questions
  - c) Section C (Achiever's Level Mathematics): 15 Questions
2. Each question of section A carries 2 mark. Each question of section B carries 2 marks and each question of section C carries 4 marks.
3. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
4. There is only one correct answer. Choose only ONE option.
5. Tick the correct answer in the question paper.
6. Rough work should be done in the blank space provided in booklet.
7. Please fill in your personal details in the space provided below.

NAME: .....

SCHOOL NAME: .....

CONTACT DETAILS OF GUARDIAN: .....

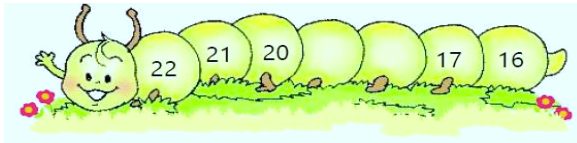
## Logical Reasoning:

1. A birthday cap is shaped like a:

- a) Cube                      b) Cone  
c) Triangle                  d) Circle

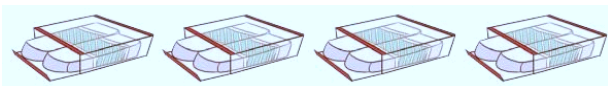


2. Find the missing number observing the pattern in the given figure.



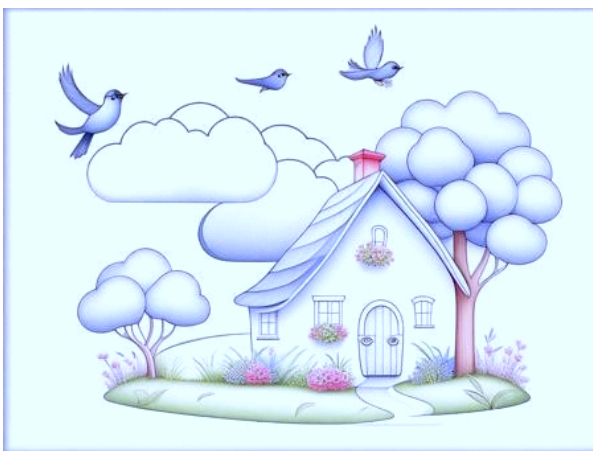
- a) 19, 23                  b) 23, 24  
c) 19, 18                  d) 15, 14

3. Cheenu bought some packs of erasers from a shop. We can say, that she bought \_\_\_\_\_ times 2 erasers in total.



- a) 5                          b) 4  
c) 3                          d) 2

4. The birds flying in the given figure are \_\_\_\_\_ the house.

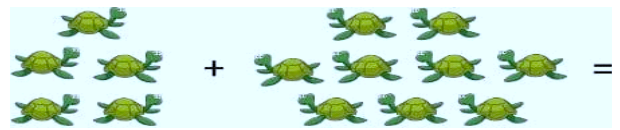


- a) Above                    b) Below  
c) Under                    d) Beside

5. Mrs Kapoor owns 17 handbags out of which 3 are red. How many handbags are of other colour?

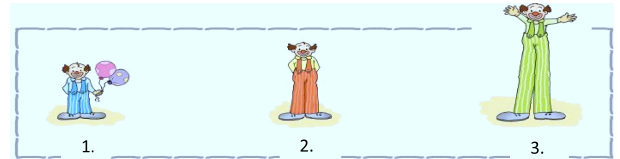
- a) 11                        b) 12  
c) 13                        d) 14

6. Count the total number of tortoise you can observe in the given picture.



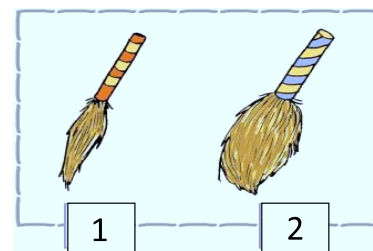
- a) 14                        b) 12  
c) 16                        d) 20

7. Which among the following is the shortest?



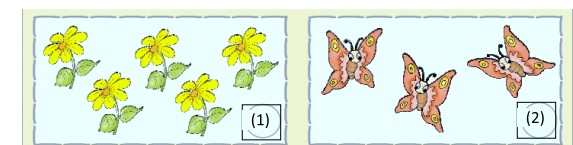
- a) 2                          b) 1  
c) 3

8. Which among the two is heavier?



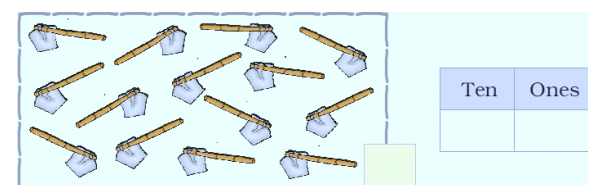
- a) 1.                        b) 2.  
c) Both                    d) Cannot Say

9. Which between the two images has more objects?



- a) (1)                      b) (2)  
c) Cannot say            d) Both are equal

10. Make a group of ten



- a) 1, 4                    b) 4, 1  
c) 1, 3                    d) 3, 1

## Mathematical Reasoning:

11. In a box, there are 25 blue marbles, 18 red marbles and 27 yellow marbles. How many marbles are there in the box altogether?

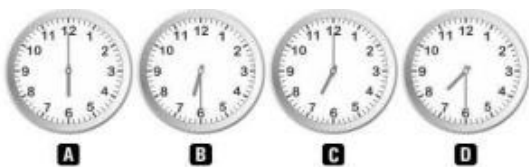
a) 50                      b) 60  
c) 70                      d) 80

12. Rohit bought pumpkins, brinjal and tomatoes at Rs.10, Rs.5 and Rs.14 respectively. How much did he pay to the vendor at last for one pumpkin, one brinjal and one tomato?



a) 26                      b) 30  
c) 28                      d) 29

13. Kevin goes to play at the park at 6:30 pm. He comes back after half an hour. What times does the clock show when he comes back?

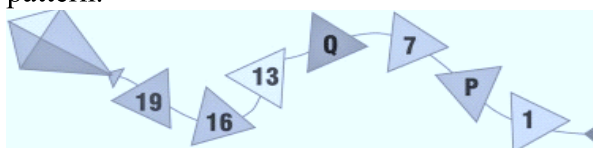


14. Tanya bought 9 eggs from the market. She Broke 4 eggs. How many eggs were not broken?



a) 5                      b) 4  
c) 9                      d) 7

15. Find the value of P and Q in the given number pattern.



a) 10, 4                      b) 4, 10

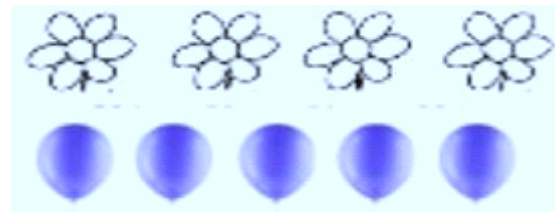
c) 2, 8                      d) 3, 8

16. Which picture is 3rd from the right end?



a) R                      b) S  
c) T                      d) Q

17. Sumit has flowers and balloons.



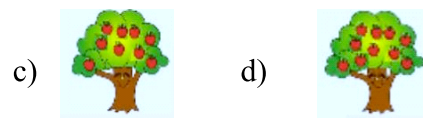
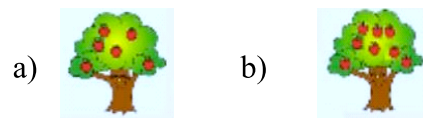
Which statement is true among the following?

a) Flowers are more than balloons.  
b) Flowers are equal to balloons.  
c) Flowers are less than balloons.  
d) Cannot say

18. Mini had Rs.560 in her purse. When she went shopping, she spent Rs.456. How much money was left with her?

a) Rs.4                      b) Rs.24  
c) Rs.104                      d) Rs.140

19. Which tree has apples more than 6 but less than 9?

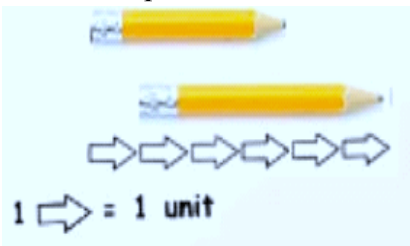


20. A bag of rice weighs 6kg. How much do 3 bags of rice weigh?

a) 18 kg                      b) 24 kg  
c) 15 kg                      d) 17 kg

Achievers Section

21. Ananya has two pencils. Find the total length of both the pencils.



- a) 7 units      b) 6 units
- c) 5 units      d) 9 units

22. Select the incorrect match.

a)

3 + 2

8 - 3

b)

4 + 5

3 + 8

c)

10 + 0

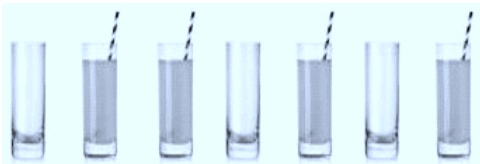
10 - 0

d)

8 - 4

10 - 6

23. Tanuj drinks a few glasses of juice. There are \_\_\_\_\_ glasses of juice left. Tanuj drinks \_\_\_\_\_ glasses of juice.



- a) 4, 3      b) 7, 5
  - c) 7, 4      d) 3, 8
24. If tomorrow will be a Sunday, then yesterday was
- a) Friday      b) Saturday
  - c) Monday      d) Thursday

25. Which even number comes in between: 6, 8, \_\_\_\_\_, 12

- a) 10      b) 14
- c) 16      d) 4

26. Which number makes the equation true?

$14 + 4 = \square + 5$

- a) 14      b) 13
- c) 15      d) 16

27. Which shape comes next?

●

▲

●

▲

●

▲

●

▲

●

a) 

●

b) 

▲

c) 

▲

▲

d) 

●

●

28. The weight of animals is given below. Identify the heaviest animal.

Goat

Dog

Pig

Sheep

45 kg

43 kg

28 kg

39 kg

- a) Pig      b) Dog
- c) Sheep      d) Goat

29. Look at the picture graph which shows the number of teddy bears collected by four friends

Ram										
Gautam										
Sanjana										
Joel										

Who collected the least number of teddy bears?

- a) Ram      b) Gautam
- c) Sanjana      d) Joel

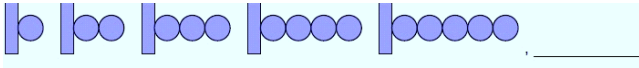
30. Madhav takes piano lessons every Sunday. If he went to the piano class on May 6, he will have his next class on May

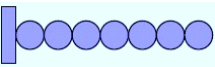
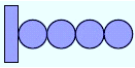
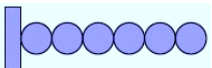
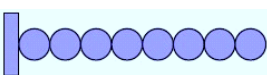
May						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

4

- a) 14                      b) 13  
c) 15                      d) 16

31. What comes next?



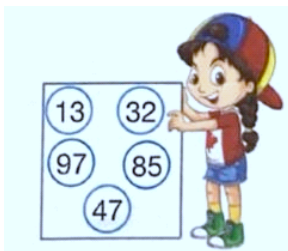
- a)   
b)   
c)   
d) 

32. Which of the following is equal to



- a)   
b)   
c)   
d) 

33. Ankita saw a board with some numbers written on it. The greatest number among them is



- a) Thirty two              b) Ninety Seven  
c) Eighty five            d) Forty Seven

34. Soham bought the following fruits from the market.



How much less money did he spend on grapes as compared to pineapple?

- a) 18                      b) 20  
c) 23                      d) 35

35. Kriti has a bag which weighs 5kg and Shruti has a bag whose weight is 2 kg more than Kriti's. Find the weight of Shruti's bag.

- a) 7 kg                      b) 3 kg  
c) 8 kg                      d) 9 kg