

# 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: .....

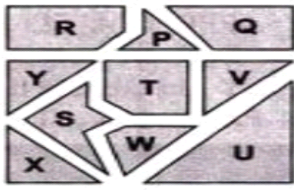
SCHOOL NAME: .....

CONTACT DETAILS OF GUARDIAN: .....

## SECTION A

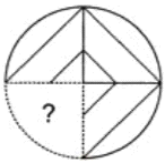
### LOGICAL REASONING

1. How many shapes has the number of sides equal to 4?



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

2. Which figure will complete the given pattern?



- a)                      b)   
c)                      d)

3. How many groups of 5 candies can be formed from the given candies?



- a) 5                      b) 6  
c) 4                      d) 3

4. Select the odd one out.

- a)                      b)   
c)                      d)

5. Direction: There is a certain relationship between the pair of figures on the either side of. Identify the relation and find the missing figure.



- a)                      b)   
c)                      d)

6. Find the fish from the options which is same as the given fish.



- a)                      b)   
c)                      d)

7. Which figure comes next in the figure pattern given below?



- a)                      b)   
c)                      d)

8. Which alphabet is in the middle of the given word?

SIGNATURE

- a) R                      b) T  
c) A                      d) E

9. Complete the number pattern.



- a) 30                      b) 48  
c) 40                      d) 45

10. Direction: There is a certain relationship between the pair of figures on the either side of. Identify the relation and find the missing figure.

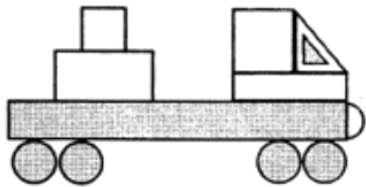


- a)                      b)   
c)                      d)

## SECTION B

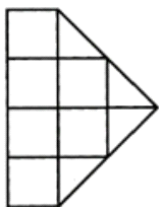
### MATHEMATICS

11. Which shape is 3 in number in the figure given?



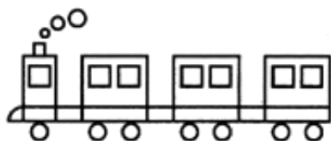
- a) Square                      b) Rectangle  
c) Triangle                    d) circle

12. How many squares are there in the. Given figure?



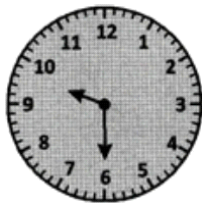
- a) 7                              b) 2  
c) 4                              d) 6

13. How many more squares than circles are there in the figure?



- a) 1                              b) 6  
c) 4                              d) 11

14. Manasa wants to light crackers till 10 p.m. The clock given shows the time present.



Manasa light crackers?

- a) 60 minutes                      b) 40 minutes  
c) 30 minutes                      d) 20 minutes

15. What time is it when the short hand is at 4 and the long hand is at 12?

- a) 4 O clock                      b) 12 O clock  
c) 8 O clock                      d) 3 O clock

16. The given clock is 15 minutes slow.



What is the correct time?

- a) 2:45 a.m./p.m.                      b) 2:15 a.m./p.m.  
c) 1:30 a.m./p.m.                      d) 3:30 a.m./p.m.

17. Dice is an example of shape.



- a) Square                      b) circle  
c) cube                      d) Rectangle

18. What is the time shown on the given clock face?



- a) 3:55                      b) 4:55  
c) 11:15                      d) 11:20

19. Find the total money if you have 5 notes of 20 rupees.

- a) 250 rupees                      b) 150 rupees  
c) 100 rupees                      d) All the above  
e) None of these

20. Sandhya has 6 coins of 50 p and 5 notes of Rs. 50. How much total money Sandhya has?

- a) Rs. 250                      b) Rs. 253  
c) Rs. 251                      d) Rs. 252

SECTION C

ACHIEVERS

21. Peter is taller than Siel by 38 cm. If Siel is 118 cm tall, then what is Peter's height?

- a) 172 cm                      b) 132 cm
- c) 156 cm                      d) 148 cm

22. Fill in the blank:

- 127, \_\_\_\_\_, 141, 148, 155
- a) 132                          b) 134
  - c) 131                          d) 133

23. Which of these correctly represents 973?

- a) Nine hundred and thirty-seven
- b) Nine hundred and seventy-three
- c) Nine hundred and thirty
- d) Nine hundred and seven

24. If the position of R and U is interchanged, then who will be second from the left?







- a) P                              b) Q
- c) R                              d) W

25. IF Mango = 400 grams, Apple = 200 grams and Mango + Apple + Grapes = 800 grams, then What will be the weight of Grapes?

- a) 100 grams                      b) 200 grams
- c) 300 grams                      d) 400 grams

26. Which of the following shapes has maximum number of sides?

- a)                       b) 
- c)                       d) 

27. Who is third from the right of T?



- a) V                              b) R
- c) W                              d) Q

















28. What is the sum of the largest 3 digit number and the smallest 3 digit number?

- a) 1,999                          b) 9,999
- c) 1,100                          d) 1,099

29. Tom enjoys reading. He was doing resgarch on the growth. There are four reference book shelves. There are four reference books on each shelf How many reference books are there in total?

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

30. Five friends planned to show off their toys to one another. They had a lot of toys, so they decided to show them in pictograph form, as shown in the image below. Amy and Lucy have how many toys together?

One  represents 10 Toys	
Name	Number of Toys
Amy	 
Lucy	   
Tia	  
Dolly	    
Sia	

- a) 20                              b) 40
- c) 60                              d) 80

31. Which of these Statements is correct regarding the picture given?

a) 28  
c) 21

b) 27  
d) 23



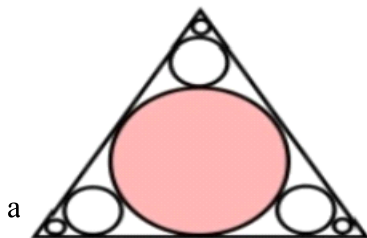
- b) Fruits are heavier than cake  
c) Fruits are heavier than cake  
d) Fruits are lighter than cake

32. Find the missing number:

$$128 + 314 - ? = 653 - 482$$

- a) 271                      b) 583  
c) 571                      d) 143

33. How many circles are there in the picture?



- a) 7  
c) 7                      d) 8

34. The organisation is holding a painting activity in which six groups of students have participated. Each group is made up of four students. How many students took part in the painting activity?

- a) 20                      b) 22  
c) 24                      d) 28

35. I am a two-digit number between 20 and 30. My ten's place digit is greater than one's place digit. Who am I?

