

# AOS

## ASIAN OLYMPIAD SOCIETY

# ARAO

## ASIAN REASONING & APTITUDE OLYMPIAD 2020-2021

CLASS

5

### INSTRUCTIONS AND INFORMATION FOR THE CANDIDATE

#### GENERAL

1. Do not open the booklet until told to do so by your teacher.
2. No calculators maths stencils, mobile phones or other calculating devices are permitted. Scribbling paper, graph paper, ruler and compasses are permitted, but are not essential.
3. Read the instructions on the answer sheet carefully. Ensure your name, school name and class are entered. It is your responsibility to correctly code your answer sheet.

#### THE ANSWER SHEET

1. Use an HB pencil or a Blue/Black ball point pen only to record your choice of answer in the Answer sheet.
2. Your answer sheet will be scanned. The optical scanner will attempt to read all markings even if they are in the wrong places, so please be careful not to write anything extra on the answer sheet.
3. If you want to change an answer or remove any marks, use a plastic eraser and be sure to remove all marks and smudges.
4. Fill your enrollment number clearly, improper enrollment number may lead to unavailability of result.
5. Please fill your Mobile Number clearly on the Answer Sheet, we will share your marks / result and other information related to AOS exams on your mobile number.
6. All questions are compulsory and there is no negative marking.
7. Return the ANSWER SHEET to the invigilator at the end of the exam.

#### INTEGRITY OF THE COMPETITION

The AOS reserves the right to re-examine students before deciding whether to grant official status to their score.

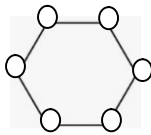
ENROLLMENT NUMBER : \_\_\_\_\_ CLASS : \_\_\_\_\_

STUDENT NAME : \_\_\_\_\_ Contact No : \_\_\_\_\_

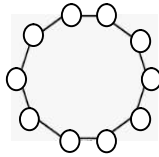
1. How many circles will be in the pattern 5?



Pattern 1



pattern 2



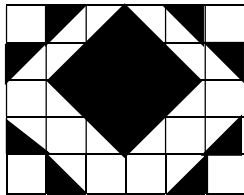
pattern 3

- a) 14                                      b) 18                                      c) 21                                      d) 28

2. If '+' mean '÷', 'x' mean '-', '÷' mean 'x' and '-' mean '+', then find the value of '24 + 6 ÷ 3 x 7'.

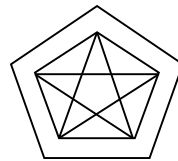
- a) 182                                      b) 5                                      c) 12                                      d) 72

3. Find the total shaded area made up of 1 cm squares.



- a) 14 cm<sup>2</sup>                                      b) 12 cm<sup>2</sup>                                      c) 16 cm<sup>2</sup>                                      d) 18 cm<sup>2</sup>

4. How many pentagons are there in the given figure?



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

5. Suchitra walks 5 km towards the North and takes a left turn. Again she walks for 12 km. in which direction is she from the starting point?

- a) North – East                                      b) North – West                                      c) South – West                                      d) South – East

6. If Nisha is 11<sup>th</sup> from the left and 38<sup>th</sup> from the right in a row, then how many members are there in the row?

- a) 50                                      b) 49                                      c) 48                                      d) 45

7. Sunita is mother of Rakesh's sister. Kavita is mother of Mohit who is brother of Sunita. How kavita is related to Rakesh?

- a) Daughter                                      b) Mother                                      c) Maternal Grandmother                                      d) Grandmother

8. If A = 3, B = 4, C = 5, D = 6 and so on. What do the following numbers stand for?

20	17	5	13	7	22
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- a) Water                                      b) Rocket                                      c) Bucket                                      d) Table

9. Find out the missing number .

37, 31, 29, 23, 17, 13, ?

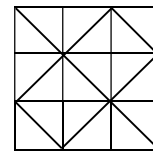
- a) 9                                      b) 7                                      c) 8                                      d) 11

10. Five students are sitting in a row. 'T' is on the right of 'Z', 'M' is on the left of 'Z' but is on the right of 'L'. 'T' is on the left of 'Q'. who is sitting first from the left?

- a) Z                                      b) Q                                      c) T                                      d) L

11. Count the number of squares in the given figure

- a) 16                                      b) 14                                      c) 12                                      d) 15



12. What will come next in the given sequence?

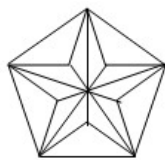
A 5, C 10, E 15, G 20, ?

- a) H 30                                      b) I 30                                      c) I 25                                      d) H 25

13. Select the word that cannot be formed from the given word. MYSTERIOUS

- a) Sister                                      b) Year                                      c) System                                      d) Tyre

14. How many triangles are there in the given figure?



- a) 15                                      b) 20                                      c) 18                                      d) 12

15. If Abhishek is taller than Bablu; Rinku is shorter than Abhishek; Sameer is taller than Tarun but shorter than Bablu, then who among them is the tallest ?

- a) Abhishek                                      b) Tarun                                      c) Bablu                                      d) Rinku

Answer key

1 - b	2 - b	3 - b	4 - b	5 - b	6 - c	7 - c	8 - b	9 - d	10 - d	11 - a	12 - c	13 - b	14 - b	15 - a
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