

AOS

ASIAN OLYMPIAD SOCIETY

ATHO

ASIAN TALENT HUNT OLYMPIAD 2020-2021

CLASS

8

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. A two digit number is 4 times the sum of its digits and also 16 more than the product of digits. Find the number.
a) 48 b) 36 c) 44 d) 32
2. The length and breadth of a rectangle are $(3k + 1)$ cm and $(2k - 1)$ cm respectively. Find the perimeter of the rectangle if its area is 144 cm^2 .
a) 50 cm b) 10 cm c) 32 cm d) 25 cm
3. The incenter, circumcenter, centroid and orthocenter lie inside the triangle, it is
a) An acute angled triangle b) a right angled triangle c) an obtuse angled triangle d) None
4. If the circumference of a circle is increased by 50%, by what percent will its area be increased?
a) 75% b) 100% c) 125% d) 150%
5. The sum of digits of a 3 digit number is subtracted from the number. The resulting number is always
a) Divisible by 6 b) not divisible by 6 c) divisible by 9 d) not divisible by 9
6. Which term of the arithmetic progression 5, 15, 25, ... will be 130 more than its 31st term?
a) 51 b) 44 c) 33 d) 21
7. Some one rupee, 50 paise and 25 paise coins make up Rs.93.75 and their numbers are in the proportion of 3 : 4 : 5 . find the number of each type of coins.
a) 40, 70, 75 b) 46, 58, 75 c) 42, 56, 70 d) 45, 60, 75
8. Which of the following options is correct?
a) If n is any natural number, then $6^n - 5^n$ always ends with 1.
b) For any integer t , every odd integer is of the form $2t + 1$.
c) Both A and B
d) Neither A nor B
9. Which one of the following is not an example of biomass?
a) Wood b) Rice husk c) Dung cake d) Coal

10. Which of the following is not used as a nuclear fuel?
a) Uranium b) Thorium c) Plutonium d) Titanium
11. Which of the following energy sources cannot be reused?
a) Fossil fuels b) Wind c) Solar power d) Water
12. Which of the following disease is insect – borne?
a) Malaria b) Rabies c) Tuberculosis d) Common cold
13. With which tree is Amrita Devi Bishnoi associated?
a) Khhajri b) Keekar c) Khejri d) Khajoor
14. Name the three components of a neuron.
a) Cell body, Dendrites and Axon b) Dendrites, Alveoli, Axon
c) Cell body, Bowmen capsule, Axon d) Axon, Ventricles, Atrium
15. In diamond the number of free electrons are
a) 1 b) 2 c) 0 d) 4

Answer key

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