

AOS

ASIAN OLYMPIAD SOCIETY

ASSO

ASIAN SPACE SCIENCE OLYMPIAD 2020-2021

CLASS

9

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. The biggest asteroid known is
 - a) Vesta
 - b) Icarus
 - c) Ceres
 - d) Eros

2. Galileo spacecraft is associated with which planet?
 - a) Jupiter
 - b) Mars
 - c) Mercury
 - d) Saturn

3. An imaginary line connecting two points on the Earth's orbit representing the dates of aphelion and perihelion is called _____.
 - a) Apse lines
 - b) Equinox line
 - c) Solstice lines
 - d) Orbital plane

4. Which of the following statements is true for both Saturn and Jupiter?
 - a) Both rotate faster than the Earth.
 - b) Both rotate slower than the Earth.
 - c) Only one rotates rapidly while the other rotates very slowly.
 - d) Their periods of rotation are linked to their period of revolution.

5. Name the outer boundary of the Sun's magnetic field.
 - a) Magnetosphere
 - b) Heliopause
 - c) Flares
 - d) Plages

6. The Sun rotates about its own axis approximately:
 - a) Once every 60 minutes
 - b) once every 24 hours
 - c) once every 365 days
 - d) varies with solar latitude

7. The reason we call an astronomical body a black hole is that :
 - a) It is a huge star which appears black at its centre .
 - b) Its gravity is so high that it absorbs its own photons.
 - c) It represents lack of matter in a portion of space
 - d) It is a dead planet.

8. The instrument that astronomers use to produce an artificial eclipse of the Sun is called _____.
 - a) Coronagraph
 - b) Photosphere disk
 - c) Coronal disk
 - d) Eclipse graph

9. Which two of the following are Galileo's important contributions to astronomy?
- Built instruments to measure the locations of heavenly bodies.
 - Discovered laws of planetary motion.
 - Discovered that Sun has sunspots.
 - None of these
10. Valles marineris on Mars shows the evidence of what on its surface ?
- Water
 - Volcano
 - Highlands
 - Desert
11. Which of the following galaxies has least amount of gas and dust?
- Spiral
 - Barred Spiral
 - Elliptical
 - Irregular
12. Which is the smallest constellation ?
- Crux
 - Sagitta
 - Microscopium
 - None of these
13. Most astronomers believe that massive black holes are found in _____.
- Orbits around planets
 - Centres of galaxies
 - Arms of spiral galaxies
 - Centres of globular star clusters
14. Few radio waves from space cannot reach Earth's surface. It is because of _____
- Solar flares
 - Lack of energy
 - The ionosphere
 - Earth's gravity
15. A spherical collection of millions of distant comets surrounding the Solar System is known as _____.
- Solar System disc
 - Van Allen belt
 - Kuiper belt
 - Oort cloud

Answer key

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