STUDENT COPY · SET A

Class 10 · Science Olympiad

Total questions	Total marks	Time	Negative marking
50	60	60 minutes	None

Name: _____ Class/Section: _____ Roll no: _____

Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. Your teacher has the answers.
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Logical Reasoning

10 questions · 1 mark each · 10 marks

Q1. Sima walks 8 m north, then 8 m east, then 7 m south. Where is Sima now, relative to the starting point?

(A) 1 m north and 9 m east
(B) 1 m north and 8 m east
(C) 2 m north and 8 m east
(D) 8 m north and 8 m east

Q2. All but one of these numbers are multiples of the same number. Find the one that is not: 14, 28, 49, 61, 77

(A) 28 (B) 61 (C) 77 (D) 14

Q3. Read the statements and choose the conclusion that MUST be true.
All squares are rectangles. All rectangles have four sides.

(A) No rectangle is a square.
(B) All squares have four sides.
(C) Some squares have three sides.
(D) All rectangles are squares.

Q4. Five friends A, B, C, D and E sit in a row of five seats. A sits at the extreme left end, D sits at the extreme right end, C sits exactly in the middle and B sits between A and C. Who sits in the fourth seat from the left?

(A) D (B) E (C) B (D) C

Q5. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Yamuna (B) Godavari (C) Thar (D) Ganga

Q6. Which word would come FIRST in a dictionary?

(A) maple (B) minute (C) mango (D) monkey

Q7. If the 18th of a month is a Saturday, what day of the week is the 27th of the same month?

(A) Sunday (B) Wednesday (C) Tuesday (D) Monday

Q8. Which of these figures has exactly 6 lines of symmetry?



(A) (B) (C) (D)

Q9. In a class, 9 students play cricket, 11 play football and 3 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 14 (B) 18 (C) 17 (D) 20

Q10. Find the next number in the pattern: 4, 9, 19, 39, ___

(A) 77 (B) 79 (C) 80 (D) 78

Science

35 questions · 1 mark each · 35 marks

Q11. Which planet is nearest to the Sun?

(A) Earth (B) Venus (C) Mars (D) Mercury

Q12. What is the chemical symbol for sodium?

(A) S (B) Na (C) Sd (D) So

Q13. Which of these is a non-biodegradable waste?

(A) Paper (B) Plastic bag

(C) Cotton cloth (D) Vegetable peel

Q14. What is the normal body temperature of a healthy human?

(A) About 42°C (B) About 37°C (C) About 30°C (D) About 25°C

Q15. Which planet is known as the Red Planet?

(A) Venus (B) Saturn (C) Jupiter (D) Mars

Q16. What is the function of the root hairs of a plant?

(A) To hold the flower (B) To absorb water and minerals

(C) To store sunlight (D) To make food

Q17. Deficiency of which vitamin causes scurvy?

(A) Vitamin C (B) Vitamin D (C) Vitamin B12 (D) Vitamin A

Q18. Which part of the plant carries water from the roots to the leaves?

(A) The xylem (B) The phloem (C) The stomata (D) The cuticle

Q19. At what temperature does water boil at normal pressure?

(A) 212°C (B) 50°C (C) 100°C (D) 0°C

Q20. What causes the change of seasons on the Earth?

(A) The Earth moving closer to the Sun (B) The tilt of the Earth as it orbits the Sun

(C) Changes in the Sun's size (D) The Moon blocking the Sun

Q21. How many planets are there in our solar system?

(A) Nine (B) Eight (C) Seven (D) Ten

Q22. Which of these diseases is caused by a virus?

(A) Typhoid (B) Tuberculosis (C) Cholera (D) Common cold

Q23. Which part of the cell controls its activities?

(A) The nucleus (B) The vacuole

(C) The cytoplasm (D) The cell wall

Q24. What is the SI unit of electric current?

(A) Ohm (B) Volt (C) Ampere (D) Watt

Q25. How long does the Earth take to complete one rotation on its axis?

(A) 365 days (B) 12 hours (C) 24 hours (D) 30 days

Q26. What is the process of separating salt from sea water by heating called?

(A) Distillation of solids (B) Evaporation

(C) Sublimation (D) Filtration

Q27. Which gas do plants take in during photosynthesis?

(A) Carbon dioxide (B) Hydrogen

(C) Oxygen (D) Nitrogen

Q28. What is the SI unit of power?

(A) Newton (B) Joule (C) Volt (D) Watt

Q29. What is the unit of force?

(A) Watt (B) Pascal (C) Joule (D) Newton

Q30. Which of these is a major cause of global warming?

(A) Walking to school (B) Planting more trees

(C) Using solar energy (D) Excess carbon dioxide in the atmosphere

Q31. Green colour in leaves is due to which pigment?

(A) Haemoglobin (B) Carotene (C) Chlorophyll (D) Melanin

Q32. Two objects of different masses are dropped in a vacuum. Which lands first?

(A) Neither falls in a vacuum (B) The heavier one

(C) They land together (D) The lighter one

Q33. Which part of the plant develops into a fruit?

(A) The ovary (B) The sepal (C) The stamen (D) The petal

Q34. What is the chemical symbol for gold?

(A) Ag (B) Go (C) Au (D) Gd

Q35. What kind of energy does a moving object have?

(A) Kinetic energy (B) Chemical energy

(C) Sound energy (D) Nuclear energy

Q36. An eclipse of the Sun happens when:

(A) The Sun comes between the Earth and the Moon

(B) The Moon comes between the Earth and the Sun

(C) The Earth comes between the Sun and the Moon

(D) The Earth stops rotating

Q37. Water freezes into ice at which temperature?

(A) 0°C (B) -100°C (C) 100°C (D) 10°C

Q38. What happens to the speed of light when it enters glass from air?

(A) It becomes zero

(B) It decreases

(C) It stays the same

(D) It increases

Q39. Which nutrient is the main source of energy for our body?

(A) Vitamins

(B) Water

(C) Minerals

(D) Carbohydrates

Q40. An echo is caused by:

(A) Refraction of sound

(B) Reflection of sound

(C) Absorption of sound

(D) Dispersion of sound

Q41. Which of these is a renewable source of energy?

(A) Petrol (B) Diesel (C) Solar energy (D) Coal

Q42. Rusting of iron needs which two things?

(A) Carbon dioxide and water

(B) Oxygen and water

(C) Oxygen and salt only

(D) Nitrogen and water

Q43. Which is the smallest particle of an element that can take part in a reaction?

(A) Crystal (B) Cell (C) Molecule (D) Atom

Q44. Which mirror is used as a rear-view mirror in vehicles?

(A) A convex mirror

(B) A plane mirror

(C) A concave mirror

(D) A cylindrical lens

Q45. How many bones does an adult human body have?

(A) 300 (B) 212 (C) 201 (D) 206

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. Why is a wet cloth placed on the forehead of a person with fever?

(A) Water adds heat to the body

(B) Water makes the skin thicker

(C) The cloth blocks the fever

(D) Evaporating water cools the skin

Q47. A gardener waters a plant but keeps it in a completely dark cupboard. The plant slowly turns yellow and dies. Why?

(A) Water is harmful to plants in the dark

(B) Without light it cannot make food by photosynthesis

(C) The cupboard has too much oxygen

(D) Plants need soil, not water

Q48. A metal spoon left in hot soup soon feels hot at the handle. Why?

(A) Metal conducts heat along the spoon

(B) Soup climbs up the spoon

(C) Metal always stays hot

(D) The handle makes its own heat

Q49. You see a bird with a long, sharp, pointed beak catching fish. What does the beak shape tell you?

(A) It is used for cracking seeds

(B) It is used for digging soil

(C) It is suited to spearing and gripping fish

(D) It is used for sipping nectar

Q50. Fish can live in a frozen pond because:

(A) Ice floats on top and water below stays liquid

(B) Ice sinks to the bottom

(C) Fish can breathe air

(D) Fish stop needing oxygen in winter

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