STUDENT COPY · SET A

Class 7 · 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. If the 8th of a month is a Wednesday, what day of the week is the 24th of the same month?

(A) Sunday (B) Saturday (C) Thursday (D) Friday

Q2. Which letter comes next? E, G, J, N, ___

(A) Q (B) R (C) S (D) T

Q3. In a queue, Deep is 6th from the front and 5th from the back. How many people are in the queue altogether?

(A) 12 (B) 11 (C) 10 (D) 9

Q4. Sima walks 5 m north, then 4 m east, then 2 m south. Where is Sima now, relative to the starting point?

(A) 3 m north and 4 m east
(B) 3 m north and 5 m east
(C) 5 m north and 4 m east
(D) 4 m north and 4 m east

Q5. A father is 27 years older than his son. The son is 14 years old now. How old will the father be after 6 years?

(A) 48 years (B) 53 years (C) 41 years (D) 47 years

Q6. Which of these figures has exactly 4 lines of symmetry?



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

Q7. Which word would come FIRST in a dictionary?

(A) mango (B) melon (C) maple (D) mother

Q8. 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) C (C) B (D) E

Q9. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Krishna (B) Yamuna (C) Sahara (D) Ganga

Q10. Which one does NOT belong with the others?

(A) Triangle (B) Square (C) Rectangle (D) Circle

Science

35 questions · 1 mark each · 35 marks

Q11. 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

Q12. Which part of the body controls all our actions and thoughts?

(A) The lungs (B) The heart (C) The stomach (D) The brain

Q13. An echo is caused by:

(A) Absorption of sound (B) Refraction of sound

(C) Dispersion of sound (D) Reflection of sound

Q14. Which of these materials is attracted by a magnet?

(A) Iron (B) Paper (C) Cloth (D) Glass

Q15. What is the process of separating salt from sea water by heating called?

(A) Filtration (B) Sublimation

(C) Evaporation (D) Distillation of solids

Q16. Which organ pumps blood around the body?

(A) The lungs (B) The brain (C) The liver (D) The heart

Q17. Which of these is a physical change?

(A) Rusting of iron (B) Cooking of food

(C) Burning of paper (D) Melting of ice

Q18. Where do fish take in oxygen from water?

(A) Through their fins (B) Through their tail

(C) Through their scales (D) Through their gills

Q19. Which gas do living things release during respiration?

(A) Hydrogen (B) Oxygen

(C) Nitrogen (D) Carbon dioxide

Q20. How many bones does an adult human body have?

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

Q21. Which of these is a mixture and not a compound?

(A) Carbon dioxide (B) Common salt

(C) Water (D) Air

Q22. Which vitamin does our skin make when sunlight falls on it?

(A) Vitamin C (B) Vitamin A (C) Vitamin D (D) Vitamin K

Q23. What is the normal body temperature of a healthy human?

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

Q24. Light travels fastest through which of these?

(A) Water (B) Glass (C) Air (D) Vacuum

Q25. Which organ removes waste from the blood and makes urine?

(A) The lung (B) The kidney (C) The heart (D) The liver

Q26. Which of these is a good conductor of electricity?

(A) Rubber (B) Plastic (C) Wood (D) Copper

Q27. What kind of energy is stored in a stretched rubber band?

(A) Sound energy (B) Kinetic energy

(C) Light energy (D) Potential energy

Q28. Which of these is a non-biodegradable waste?

(A) Vegetable peel (B) Cotton cloth

(C) Paper (D) Plastic bag

Q29. How many atoms of oxygen are there in one molecule of carbon dioxide?

(A) Four (B) One (C) Two (D) Three

Q30. Which gas in the air do we need to breathe?

(A) Nitrogen (B) Carbon dioxide

(C) Oxygen (D) Helium

Q31. Which device converts electrical energy into light energy?

(A) An electric bulb (B) A battery

(C) A microphone (D) A dynamo

Q32. Deficiency of which vitamin causes scurvy?

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

Q33. Which layer of the atmosphere protects us from harmful ultraviolet rays?

(A) The exosphere (B) The magnetosphere

(C) The troposphere (D) The ozone layer

Q34. Sound cannot travel through which of these?

(A) Air (B) Water (C) Steel (D) Vacuum

Q35. Which process do green plants use to make their own food?

(A) Respiration (B) Digestion

(C) Transpiration (D) Photosynthesis

Q36. Which gas makes up most of the air around us?

(A) Hydrogen (B) Nitrogen

(C) Carbon dioxide (D) Oxygen

Q37. Rusting of iron needs which two things?

(A) Carbon dioxide and water (B) Oxygen and salt only

(C) Nitrogen and water (D) Oxygen and water

Q38. Which nutrient is the main source of energy for our body?

(A) Vitamins (B) Minerals

(C) Water (D) Carbohydrates

Q39. Through which tiny pores do leaves exchange gases?

(A) Roots (B) Stomata (C) Petals (D) Veins

Q40. What is the natural satellite of the Earth called?

(A) The Sun (B) Mars (C) A comet (D) The Moon

Q41. What is the function of the root hairs of a plant?

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

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

Q42. Which planet is known as the Red Planet?

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

Q43. An eclipse of the Sun happens when:

(A) The Earth stops rotating (B) The Earth comes between the Sun and the Moon

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

Q44. Which simple machine is used in a see-saw?

(A) Wedge (B) Pulley (C) Lever (D) Screw

Q45. Loss of water vapour from the leaves of a plant is called:

(A) Condensation (B) Respiration

(C) Transpiration (D) Germination

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) Evaporating water cools the skin (B) Water adds heat to the body

(C) The cloth blocks the fever (D) Water makes the skin thicker

Q47. A metal spoon left in hot soup soon feels hot at the handle. Why?

(A) The handle makes its own heat

(B) Soup climbs up the spoon

(C) Metal conducts heat along the spoon

(D) Metal always stays hot

Q48. Why do we see lightning before we hear thunder?

(A) Lightning is closer than thunder

(B) Sound is blocked by clouds

(C) Light travels much faster than sound

(D) Thunder happens later than lightning

Q49. 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

Q50. Two identical glasses hold water at 10°C and at 80°C. In which glass will a sugar cube dissolve faster?

(A) The glass at 80°C

(B) Both at the same speed

(C) The glass at 10°C

(D) Neither will dissolve

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