STUDENT COPY · SET A

Class 6 · 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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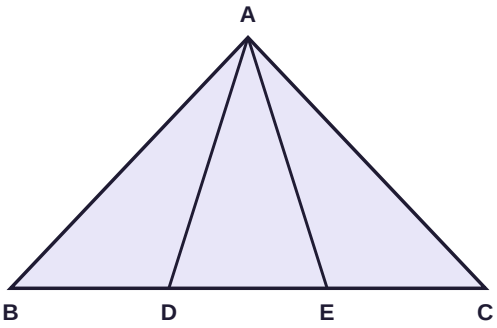
Logical Reasoning

10 questions · 1 mark each · 10 marks

Q1. 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) B (B) C (C) E (D) D

Q2. How many triangles are there in the given figure?



(A) 8 (B) 5 (C) 6 (D) 7

Q3. If the 12th of a month is a Tuesday, what day of the week is the 23rd of the same month?

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

Q4. Read the statements and choose the conclusion that MUST be true.
All roses are flowers. All flowers need water.

(A) All flowers are roses. (B) All roses need water.

(C) Some roses do not need water. (D) Only roses need water.

Q5. Find the next number in the pattern: 2, 6, 14, 30, ___

(A) 60 (B) 62 (C) 63 (D) 64

Q6. Pointing to a boy in a photograph, Vikram said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Vikram?

(A) Brother (B) Uncle (C) Nephew (D) Cousin

Q7. All but one of these numbers are multiples of the same number. Find the one that is not: 48, 72, 96, 120, 136

(A) 96 (B) 48 (C) 136 (D) 72

Q8. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Bus (B) Chair (C) Truck (D) Train

Q9. Which word would come FIRST in a dictionary?

(A) mango (B) marble (C) minute (D) matter

Q10. Which of these figures has exactly 4 lines of symmetry?



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

Science

35 questions · 1 mark each · 35 marks

Q11. Which gas do living things release during respiration?

(A) Nitrogen (B) Oxygen

(C) Hydrogen (D) Carbon dioxide

Q12. Which simple machine is used in a see-saw?

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

Q13. Bulb, cell and switch are connected, but the bulb does not glow. The plastic coating of one wire touches the cell terminal. What is the main reason?

(A) plastic is an insulator (B) cell has two terminals

(C) switch is made of metal (D) plastic is a good conductor

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 of these is an acid?

(A) Lemon juice (B) Soap solution

(C) Baking soda solution (D) Lime water

Q16. Cactus leaves are changed into spines. How does this mainly help the plant in a desert?

(A) It pulls roots deeper (B) It reduces water loss

(C) It absorbs more rainwater (D) It makes food faster

Q17. What is the function of the root hairs of a plant?

(A) To store sunlight (B) To make food

(C) To absorb water and minerals (D) To hold the flower

Q18. Which of these is a renewable source of energy?

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

Q19. If both ends touch metal, which replacement for one wire can keep a bulb glowing in a simple circuit?

(A) replace one wire by a steel spoon (B) replace one wire by a rubber band

(C) replace one wire by a plastic scale (D) replace one wire by a dry wooden ruler

Q20. Which process do green plants use to make their own food?

(A) Digestion (B) Transpiration

(C) Respiration (D) Photosynthesis

Q21. What do we call animals that are active at night?

(A) Herbivores (B) Aquatic animals

(C) Amphibians (D) Nocturnal animals

Q22. A plant gives fluffy fibres around its seeds, while another gives fibre from its stem. Which pair matches this?

(A) Wool and jute (B) Silk and cotton

(C) Jute and cotton (D) Cotton and jute

Q23. Which of these is a physical change?

(A) Rusting of iron (B) Melting of ice

(C) Cooking of food (D) Burning of paper

Q24. Which animal is known as the ship of the desert?

(A) Donkey (B) Horse (C) Camel (D) Elephant

Q25. A mixture has iron filings, sand and salt. Which order can recover all three separately?

(A) Water, magnet, evaporation, filtration (B) Evaporation, filtration, water, magnet

(C) Filtration, magnet, water, evaporation (D) Magnet, water, filtration, evaporation

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

(A) Sublimation (B) Distillation of solids

(C) Evaporation (D) Filtration

Q27. What is the chemical formula of water?

(A) CO_2 (B) H_2O (C) NaCl (D) O_2

Q28. An 'empty' glass is pushed upside down into water with paper inside; the paper stays dry. What does this mainly show?

(A) air occupies space (B) air is always hot

(C) air passes through glass (D) air has a fixed shape

Q29. Which of these is a major cause of global warming?

(A) Using solar energy
(B) Walking to school
(C) Excess carbon dioxide in the atmosphere
(D) Planting more trees

Q30. How many legs does an insect have?

(A) Four
(B) Ten
(C) Eight
(D) Six

Q31. Riya's gums bleed often. Her meals already have rice, dal and oil. Which food best adds the nutrient linked to preventing this deficiency?

(A) chapati
(B) paneer
(C) guava
(D) ghee

Q32. Which vitamin does our skin make when sunlight falls on it?

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

Q33. A grass-like plant has long narrow leaves with parallel veins. Which root system is most likely under the soil?

(A) tap root system
(B) fibrous root system
(C) storage root system
(D) aerial root system

Q34. How long does the Earth take to complete one rotation on its axis?

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

Q35. Which pair of body parts mainly uses hinge joints for movement?

(A) Shoulder and hip
(B) Elbow and knee
(C) Neck and elbow
(D) Skull and upper jaw

Q36. Which gas do plants take in during photosynthesis?

(A) Nitrogen
(B) Carbon dioxide
(C) Hydrogen
(D) Oxygen

Q37. Which change is most easily reversed to get back almost the same material?

(A) cooking rice in water
(B) inflating and deflating a balloon
(C) burning a piece of paper
(D) setting milk into curd

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

(A) Minerals
(B) Vitamins
(C) Carbohydrates
(D) Water

Q39. Sana often eats only plain rice for lunch. Which addition best makes it a more balanced meal?

(A) Pickle, papad and chips
(B) Sugar, jam and sweets
(C) Butter, ghee and cream
(D) Dal, curd and spinach

Q40. What is the process of water changing into vapour called?

(A) Melting
(B) Freezing
(C) Evaporation
(D) Condensation

Q41. After removing iron from a sand-salt mixture and stirring it with water, which method separates the sand from the salt solution?

(A) condensation
(B) winnowing
(C) filtration
(D) evaporation

Q42. Where do fish take in oxygen from water?

(A) Through their gills
(B) Through their scales
(C) Through their tail
(D) Through their fins

Q43. Neha places four sheets before a torch. Which sheet will make the darkest, clearest shadow on a wall?

(A) clear plastic sheet
(B) thick cardboard sheet
(C) thin tracing paper sheet
(D) butter paper sheet

Q44. Water freezes into ice at which temperature?

(A) 0°C
(B) -100°C
(C) 10°C
(D) 100°C

Q45. Rani finds a green plant part and is unsure if it is a stem or root. Which observation best shows it is a stem?

(A) it absorbs water
(B) root hairs cover it
(C) it anchors the plant
(D) leaves arise from it

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. 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 10°C
(B) Neither will dissolve
(C) Both at the same speed
(D) The glass at 80°C

Q47. A boy pushes a heavy box but it does not move. Which force is stopping it?

(A) Buoyancy
(B) Magnetism
(C) Gravity
(D) Friction

Q48. Why is a wet cloth placed on the forehead of a person with fever?

(A) Water makes the skin thicker
(B) The cloth blocks the fever
(C) Water adds heat to the body
(D) Evaporating water cools the skin

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

(A) The handle makes its own heat
(B) Metal always stays hot
(C) Metal conducts heat along the spoon
(D) Soup climbs up the spoon

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