STUDENT COPY · SET A

Class 9 · 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 12th of a month is a Tuesday, what day of the week is the 23rd of the same month?

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

Q2. Which letter comes next? I, L, O, R, ___

(A) T (B) X (C) U (D) V

Q3. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is SUN written?

(A) 14 - 21 - 19 (B) 8 - 6 - 13 (C) 20 - 22 - 15 (D) 19 - 21 - 14

Q4. In a row of 37 children, Imran is 29th from the left end. What is Imran's position from the right end?

(A) 11th (B) 8th (C) 10th (D) 9th

Q5. 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) Uncle (B) Nephew (C) Brother (D) Cousin

Q6. A father is 27 years older than his son. The son is 12 years old now. How old will the father be after 4 years?

(A) 44 years (B) 47 years (C) 39 years (D) 43 years

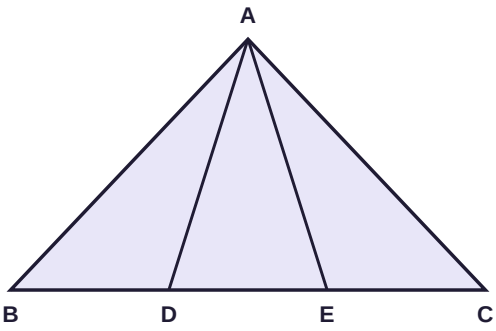
Q7. In a queue, Suresh is 8th from the front and 8th from the back. How many people are in the queue altogether?

(A) 16 (B) 15 (C) 17 (D) 14

Q8. Which one does NOT belong with the others?

(A) Wood (B) Silver (C) Iron (D) Copper

Q9. How many triangles are there in the given figure?



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

Q10. In the first row the numbers are 3, 5 and 16. In the second row they are 3, 4 and 13. In the third row they are 9, 2 and ___ . The same rule applies to every row.

(A) 19 (B) 18 (C) 21 (D) 20

Science

35 questions · 1 mark each · 35 marks

Q11. How many bones does an adult human body have?

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

Q12. What is the chemical symbol for gold?

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

Q13. Which of these is an acid?

(A) Lime water (B) Baking soda solution

(C) Lemon juice (D) Soap solution

Q14. Loss of water vapour from the leaves of a plant is called:

(A) Respiration (B) Condensation

(C) Germination (D) Transpiration

Q15. What is the process of water changing into vapour called?

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

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

(A) To store sunlight (B) To absorb water and minerals

(C) To hold the flower (D) To make food

Q17. Which blood cells help fight infection?

(A) Plasma (B) Platelets

(C) White blood cells (D) Red blood cells

Q18. Two objects of different masses are dropped in a vacuum. Which lands first?

(A) The heavier one (B) They land together

(C) The lighter one (D) Neither falls in a vacuum

Q19. How long does the Earth take to complete one rotation on its axis?

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

Q20. What is the process of separating salt from sea water by heating called?

(A) Evaporation (B) Filtration

(C) Sublimation (D) Distillation of solids

Q21. Which planet is known as the Red Planet?

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

Q22. Which device converts electrical energy into light energy?

(A) A battery (B) A microphone

(C) A dynamo (D) An electric bulb

Q23. What do we call the water cycle stage where clouds form?

(A) Evaporation (B) Condensation

(C) Precipitation (D) Filtration

Q24. Which of these is a physical change?

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

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

Q25. Which of these is a renewable source of energy?

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

Q26. What is the chemical symbol for sodium?

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

Q27. Which force pulls objects towards the Earth?

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

Q28. Which of these is a major cause of global warming?

(A) Using solar energy (B) Excess carbon dioxide in the atmosphere

(C) Walking to school (D) Planting more trees

Q29. What colour does blue litmus paper turn in an acid?

(A) It stays blue (B) Yellow

(C) Red (D) Green

Q30. What kind of energy is stored in a stretched rubber band?

(A) Potential energy (B) Kinetic energy

(C) Light energy (D) Sound energy

Q31. Common salt is chemically known as:

(A) Sodium chloride (B) Potassium nitrate

(C) Sodium bicarbonate (D) Calcium carbonate

Q32. What is the pH value of a neutral solution?

(A) 14 (B) 7 (C) 0 (D) 10

Q33. Which planet is nearest to the Sun?

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

Q34. What is the SI unit of electric current?

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

Q35. Which nutrient is the main source of energy for our body?

(A) Carbohydrates (B) Minerals

(C) Water (D) Vitamins

Q36. 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

Q37. Which simple machine is used in a see-saw?

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

Q38. Through which tiny pores do leaves exchange gases?

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

Q39. Which part of the cell controls its activities?

(A) The cytoplasm (B) The nucleus

(C) The cell wall (D) The vacuole

Q40. Which colour of white light bends the most when passing through a prism?

(A) Red (B) Green (C) Yellow (D) Violet

Q41. Light travels fastest through which of these?

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

Q42. Which of these is a mixture and not a compound?

(A) Air (B) Common salt

(C) Water (D) Carbon dioxide

Q43. What kind of energy does a moving object have?

(A) Chemical energy (B) Nuclear energy

(C) Sound energy (D) Kinetic energy

Q44. What is the SI unit of energy?

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

Q45. Which of these is a non-biodegradable waste?

(A) Cotton cloth (B) Paper

(C) Vegetable peel (D) Plastic bag

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. A boy pushes a heavy box but it does not move. Which force is stopping it?

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

Q47. Why do we see lightning before we hear thunder?

(A) Lightning is closer than thunder

(B) Light travels much faster than sound

(C) Thunder happens later than lightning

(D) Sound is blocked by clouds

Q48. 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) Both at the same speed

(C) The glass at 80°C

(D) Neither will dissolve

Q49. 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) Evaporating water cools the skin

(D) Water adds heat to the body

Q50. A gardener waters a plant but keeps it in a completely dark cupboard. The plant slowly turns yellow and dies. Why?

(A) Plants need soil, not water

(B) Water is harmful to plants in the dark

(C) The cupboard has too much oxygen

(D) Without light it cannot make food by photosynthesis

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