STUDENT COPY · SET A

Class 8 · 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) E (B) B (C) D (D) C

Q2. 8 : 64 :: 5 : ___

(A) 16 (B) 36 (C) 10 (D) 25

Q3. In a certain code JAR is written as LCT. How is PEN written in that code?

(A) PGR (B) SHQ (C) RGP (D) NCL

Q4. Read the statements and choose the conclusion that MUST be true.
All squares are rectangles. All rectangles have four sides.

(A) All squares have four sides. (B) No rectangle is a square.

(C) Some squares have three sides. (D) All rectangles are squares.

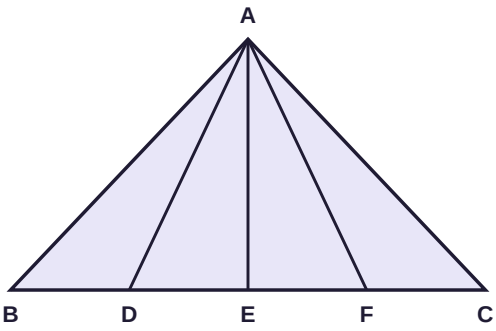
Q5. In a row of 22 children, Sana is 15th from the left end. What is Sana's position from the right end?

(A) 7th (B) 8th (C) 10th (D) 9th

Q6. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is MAP written?

(A) 14 - 26 - 11 (B) 16 - 1 - 13 (C) 14 - 2 - 17 (D) 13 - 1 - 16

Q7. How many triangles are there in the given figure?



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

Q8. Pointing to a boy in a photograph, Anjali said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Anjali?

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

Q9. All but one of these numbers are multiples of the same number. Find the one that is not: 27, 54, 63, 90, 100

(A) 27 (B) 54 (C) 63 (D) 100

Q10. Find the next number in the pattern: 3, 8, 18, 38, ___

(A) 76 (B) 78 (C) 80 (D) 79

Science

35 questions · 1 mark each · 35 marks

Q11. What is the normal body temperature of a healthy human?

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

Q12. Which gas do plants take in during photosynthesis?

(A) Carbon dioxide (B) Hydrogen

(C) Nitrogen (D) Oxygen

Q13. Through which tiny pores do leaves exchange gases?

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

Q14. Which planet is known as the Red Planet?

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

Q15. What is the chemical symbol for gold?

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

Q16. Which part of the cell controls its activities?

(A) The cell wall (B) The vacuole

(C) The nucleus (D) The cytoplasm

Q17. Which of these diseases is caused by a virus?

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

Q18. Which gas makes up most of the air around us?

(A) Carbon dioxide (B) Oxygen

(C) Hydrogen (D) Nitrogen

Q19. 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

Q20. At what temperature does water boil at normal pressure?

(A) 50°C (B) 212°C (C) 0°C (D) 100°C

Q21. An eclipse of the Sun happens when:

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

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

Q22. Which simple machine is used in a see-saw?

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

Q23. What is the function of the root hairs of a plant?

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

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

Q24. Common salt is chemically known as:

(A) Calcium carbonate (B) Sodium chloride

(C) Sodium bicarbonate (D) Potassium nitrate

Q25. Which mirror is used as a rear-view mirror in vehicles?

(A) A cylindrical lens (B) A convex mirror

(C) A concave mirror (D) A plane mirror

Q26. What do we call the water cycle stage where clouds form?

(A) Precipitation (B) Condensation

(C) Filtration (D) Evaporation

Q27. Which of these is a physical change?

(A) Melting of ice (B) Cooking of food

(C) Burning of paper (D) Rusting of iron

Q28. What kind of energy does a moving object have?

(A) Nuclear energy (B) Kinetic energy

(C) Sound energy (D) Chemical energy

Q29. Which gas do living things release during respiration?

(A) Oxygen (B) Nitrogen

(C) Carbon dioxide (D) Hydrogen

Q30. Which of these is a renewable source of energy?

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

Q31. Which part of the human eye controls how much light enters?

(A) The iris (B) The retina

(C) The cornea (D) The optic nerve

Q32. Which is the smallest particle of an element that can take part in a reaction?

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

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

(A) The ozone layer (B) The exosphere

(C) The magnetosphere (D) The troposphere

Q34. Which force pulls objects towards the Earth?

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

Q35. Two objects of different masses are dropped in a vacuum. Which lands first?

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

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

Q36. What do we call animals that are active at night?

(A) Amphibians (B) Aquatic animals

(C) Nocturnal animals (D) Herbivores

Q37. Which process do green plants use to make their own food?

(A) Digestion (B) Respiration

(C) Photosynthesis (D) Transpiration

Q38. Which vitamin does our skin make when sunlight falls on it?

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

Q39. Which of these is a mixture and not a compound?

(A) Carbon dioxide (B) Common salt

(C) Water (D) Air

Q40. Which of these is a non-biodegradable waste?

(A) Plastic bag (B) Paper

(C) Vegetable peel (D) Cotton cloth

Q41. What causes the change of seasons on the Earth?

(A) The Moon blocking the Sun (B) Changes in the Sun’s size

(C) The Earth moving closer to the Sun (D) The tilt of the Earth as it orbits the Sun

Q42. Which gas in the air do we need to breathe?

(A) Nitrogen (B) Carbon dioxide

(C) Oxygen (D) Helium

Q43. What is the SI unit of power?

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

Q44. What colour does blue litmus paper turn in an acid?

(A) Red (B) Yellow

(C) It stays blue (D) Green

Q45. Which part of the plant carries water from the roots to the leaves?

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. 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

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

(A) Sound is blocked by clouds (B) Thunder happens later than lightning

(C) Lightning is closer than thunder (D) Light travels much faster than sound

Q48. Fish can live in a frozen pond because:

(A) Ice floats on top and water below stays liquid (B) Fish can breathe air

(C) Fish stop needing oxygen in winter (D) Ice sinks to the bottom

Q49. A gardener waters a plant but keeps it in a completely dark cupboard. The plant slowly turns yellow and dies. Why?

(A) Without light it cannot make food by photosynthesis (B) Plants need soil, not water

(C) The cupboard has too much oxygen (D) Water is harmful to plants in the dark

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) The glass at 10°C

(C) Both at the same speed (D) Neither will dissolve

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