

Class 6 · Science Olympiad

Total questions 50	Total marks 60	Time 60 minutes	Negative marking None
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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. The answer key with full solutions is at the end of this paper.

This is original practice material written to the Level 1 pattern. It is not a past paper and is not affiliated with SOF or any official olympiad body.

Logical Reasoning

10 questions · 1 mark each · 10 marks

Q1. Doctor : Hospital :: Teacher : ____

- (A) School (B) Court (C) Factory (D) Farm

Q2. Pointing to a boy in a photograph, Meera said, "He is the son of my paternal grandfather's only son." How is the boy related to Meera?

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

Q3. Which one does NOT belong with the others?

- (A) Gold (B) Wood (C) Iron (D) Copper

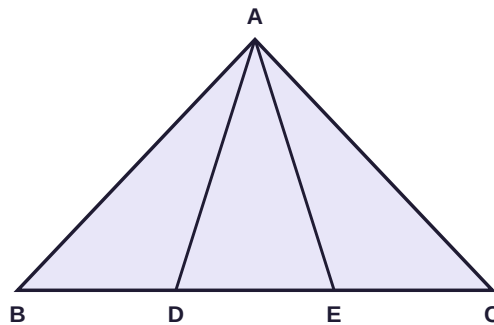
Q4. In a class, 10 students play cricket, 11 play football and 6 play both games. Every student plays at least one of the two. How many students are there in the class?

- (A) 21 (B) 15 (C) 9 (D) 16

Q5. Find the next number in the pattern: 5, 9, 13, 17, ____

- (A) 17 (B) 25 (C) 21 (D) 22

Q6. How many triangles are there in the given figure?



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

Q7. Which word would come FIRST in a dictionary?

- (A) monkey (B) matter (C) mother (D) museum

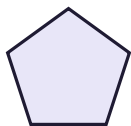
Q8. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is BAG written?

- (A) 3 - 2 - 8 (B) 7 - 1 - 2 (C) 2 - 1 - 7 (D) 25 - 26 - 20

Q9. 8 : 64 :: 6 : ____

- (A) 36 (B) 49 (C) 12 (D) 25

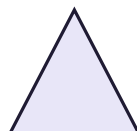
Q10. Which of these figures has exactly 3 lines of symmetry?



(A)



(B)



(C)



(D)

Science

35 questions · 1 mark each · 35 marks

Q11. Which liquid helps digest food in the mouth?

- (A) Bile (B) Saliva (C) Sweat (D) Blood

Q12. Which of these floats on water?

- (A) A stone (B) A coin
(C) A wooden stick (D) An iron nail

Q13. Which of these is a physical change?

- (A) Cooking of food (B) Burning of paper
(C) Rusting of iron (D) Melting of ice

Q14. How many planets are there in our solar system?

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

Q15. How many teeth sets do humans get in a lifetime?

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

Q16. What is the process of separating salt from sea water by heating called?

- (A) Evaporation (B) Sublimation
(C) Distillation of solids (D) Filtration

Q17. Water freezes into ice at which temperature?

- (A) 0°C (B) 100°C (C) 10°C (D) -100°C

Q18. What happens to ice kept in the hot sun?

- (A) It stays the same (B) It melts into water
(C) It becomes a stone (D) It turns into sand

Q19. What is the normal body temperature of a healthy human?

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

Q20. Where do fish take in oxygen from water?

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

Q21. Which gas do living things release during respiration?

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

- Q22. What is the chemical formula of water?
(A) CO₂ (B) H₂O (C) NaCl (D) O₂
- Q23. What is the function of the root hairs of a plant?
(A) To store sunlight (B) To hold the flower
(C) To absorb water and minerals (D) To make food
- Q24. Which of these is a renewable source of energy?
(A) Petrol (B) Diesel (C) Coal (D) Solar energy
- Q25. Which of these is a major cause of global warming?
(A) Excess carbon dioxide in the atmosphere (B) Walking to school
(C) Planting more trees (D) Using solar energy
- Q26. Which gas do plants take in during photosynthesis?
(A) Oxygen (B) Carbon dioxide
(C) Nitrogen (D) Hydrogen
- Q27. Which process do green plants use to make their own food?
(A) Transpiration (B) Photosynthesis
(C) Digestion (D) Respiration
- Q28. What kind of energy does a moving object have?
(A) Chemical energy (B) Kinetic energy
(C) Sound energy (D) Nuclear energy
- Q29. Which food gives us the most energy?
(A) Minerals (B) Carbohydrates
(C) Vitamins (D) Water
- Q30. Which part of a plant makes its food?
(A) The root (B) The stem (C) The seed (D) The leaf
- Q31. Which simple machine is used in a see-saw?
(A) Screw (B) Wedge (C) Lever (D) Pulley
- Q32. Which of these is a good conductor of electricity?
(A) Wood (B) Copper (C) Plastic (D) Rubber
- Q33. Which planet is known as the Red Planet?
(A) Saturn (B) Mars (C) Jupiter (D) Venus
- Q34. Which organ pumps blood around the body?
(A) The liver (B) The brain (C) The lungs (D) The heart
- Q35. What is the basic unit of life?
(A) The atom (B) The tissue (C) The organ (D) The cell

- Q36. Which gas makes up most of the air around us?
(A) Nitrogen (B) Oxygen
(C) Hydrogen (D) Carbon dioxide
- Q37. Which part of the body controls all our actions and thoughts?
(A) The lungs (B) The heart (C) The brain (D) The stomach
- Q38. Which of these is an acid?
(A) Lime water (B) Lemon juice
(C) Soap solution (D) Baking soda solution
- Q39. Which force pulls objects towards the Earth?
(A) Pressure (B) Gravity (C) Magnetism (D) Friction
- Q40. What do we call the water cycle stage where clouds form?
(A) Precipitation (B) Condensation
(C) Evaporation (D) Filtration
- Q41. Which of these materials is attracted by a magnet?
(A) Iron (B) Paper (C) Cloth (D) Glass
- Q42. How many legs does an insect have?
(A) Four (B) Ten (C) Six (D) Eight
- Q43. Which planet is nearest to the Sun?
(A) Venus (B) Mercury (C) Mars (D) Earth
- Q44. Which gas in the air do we need to breathe?
(A) Oxygen (B) Carbon dioxide
(C) Nitrogen (D) Helium
- Q45. Which of these is a non-biodegradable waste?
(A) Plastic bag (B) Paper
(C) Vegetable peel (D) Cotton cloth

Achievers Section

5 questions · 3 marks each · 15 marks

- Q46. Rahul finished the puzzle in two minutes and said it was 'once in a blue moon'. What did he mean?
(A) very often (B) at sunrise (C) very rarely (D) every night
- Q47. 2 taps together fill a tank in 18 minutes. How long will 6 taps of the same kind take to fill it?
(A) 6 minutes (B) 3 minutes (C) 18 minutes (D) 9 minutes
- Q48. The average of 5 numbers is 40. 4 of them are 138, 54, 5, 2. What is the remaining number?
(A) 3 (B) 40 (C) -1 (D) 1
- Q49. You press Ctrl + C, then Ctrl + V twice. What happens?
(A) Nothing happens the second time (B) The text is cut then pasted
(C) The text is deleted twice (D) The copied text is pasted two times

Q50. How many numbers between 50 and 75 leave a remainder of 3 when divided by 9?

(A) 3

(B) 1

(C) 4

(D) 2

Answer Key

1	2	3	4	5	6	7	8	9	10
A	A	B	B	C	C	B	C	A	C
11	12	13	14	15	16	17	18	19	20
B	C	D	C	B	A	A	B	B	B
21	22	23	24	25	26	27	28	29	30
C	B	C	D	A	B	B	B	B	D
31	32	33	34	35	36	37	38	39	40
C	B	B	D	D	A	C	B	B	B
41	42	43	44	45	46	47	48	49	50
A	C	B	A	A	C	A	D	D	D

Solutions

Q1. (A) The second word relates to the first in the same way School relates to Teacher.

Q2. (A) Meera's paternal grandfather's only son is Meera's own father, so that man's son is Meera's own sibling. The answer is Brother.

Q3. (B) Wood is not a metal.

Q4. (B) $10 + 11 - 6 = 15$. The 6 who play both were counted twice, so they are subtracted once.

Q5. (C) Each number is 4 more than the one before it, so the next is $17 + 4 = 21$.

Q6. (C) Every triangle has apex A and two of the 4 base points as its other corners. Choosing 2 from 4 gives 6 triangles.

Q7. (B) In alphabetical order the words run matter, monkey, mother, museum, so matter comes first.

Q8. (C) B is letter 2 and A is letter 1 and G is letter 7, so $BAG = 2 - 1 - 7$.

Q9. (A) The second number is the first multiplied by itself: $8 \times 8 = 64$, so $6 \times 6 = 36$.

Q10. (C) Counting lines of symmetry: regular pentagon has 5, square has 4, equilateral triangle has 3, rectangle has 2. The answer is figure (C).

Q11. (B) Saliva moistens food and begins the digestion of starch in the mouth.

Q12. (C) Wood is lighter than water for its size, so it floats. The answer is A wooden stick.

Q13. (D) Melting changes only the state, not the substance, so it is a physical change. The answer is Melting of ice.

Q14. (C) There are eight planets, from Mercury to Neptune.

Q15. (B) We get milk teeth first and then permanent teeth, so two sets.

Q16. (A) Heating the water away leaves the salt behind - this is evaporation.

Q17. (A) At normal pressure water freezes at 0°C and boils at 100°C .

Q18. (B) Heat makes ice melt back into water. The answer is It melts into water.

Q19. (B) Normal human body temperature is about 37°C (98.6°F).

Q20. (B) Fish breathe using gills, which take dissolved oxygen out of the water. The answer is Through their gills.

Q21. (C) Respiration uses oxygen and releases carbon dioxide.

Q22. (B) A water molecule has two hydrogen atoms and one oxygen atom: H_2O .

- Q23. (C) Root hairs greatly increase the surface for absorbing water and minerals. The answer is To absorb water and minerals.
- Q24. (D) Sunlight is renewable; coal, petrol and diesel are fossil fuels that run out. The answer is Solar energy.
- Q25. (A) Greenhouse gases such as carbon dioxide trap heat and warm the planet. The answer is Excess carbon dioxide in the atmosphere.
- Q26. (B) Plants take in carbon dioxide and release oxygen during photosynthesis.
- Q27. (B) Photosynthesis makes glucose from carbon dioxide and water using sunlight.
- Q28. (B) Energy due to motion is called kinetic energy.
- Q29. (B) Carbohydrates such as rice, wheat and potato are the body's main energy food.
- Q30. (D) Leaves make food by photosynthesis, using sunlight, water and carbon dioxide. The answer is The leaf.
- Q31. (C) A see-saw is a lever balancing on a pivot called the fulcrum.
- Q32. (B) Metals such as copper conduct electricity; rubber, wood and plastic are insulators.
- Q33. (B) Mars looks red because of the iron oxide dust on its surface.
- Q34. (D) The heart pumps blood to every part of the body.
- Q35. (D) Every living thing is made of cells, the basic unit of life. The answer is The cell.
- Q36. (A) Air is about 78% nitrogen and about 21% oxygen.
- Q37. (C) The brain is the control centre of the body.
- Q38. (B) Lemon juice contains citric acid and tastes sour; the others are bases.
- Q39. (B) Gravity is the force that pulls every object towards the centre of the Earth.
- Q40. (B) Water vapour cools and condenses into tiny droplets, forming clouds. The answer is Condensation.
- Q41. (A) Magnets attract iron, nickel and cobalt. Glass, paper and cloth are not magnetic.
- Q42. (C) All insects have six legs. Spiders, which have eight, are not insects.
- Q43. (B) Mercury is the closest planet to the Sun.
- Q44. (A) We breathe in oxygen and breathe out carbon dioxide.
- Q45. (A) Plastic does not rot away naturally, so it is non-biodegradable. The answer is Plastic bag.
- Q46. (C) In this sentence 'once in a blue moon' means very rarely.
- Q47. (A) One tap alone would take $2 \times 18 = 36$ minutes. With 6 taps the time is $36 / 6 = 6$ minutes.
- Q48. (D) The 5 numbers add up to $40 \times 5 = 200$. The given numbers add up to 199, so the missing number is $200 - 199 = 1$.
- Q49. (D) Ctrl + C copies once; each Ctrl + V pastes that copy again. The answer is The copied text is pasted two times.
- Q50. (D) The numbers are 57, 66 — 2 of them.

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