

Class 4 · Science Olympiad

Total questions 35	Total marks 40	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

5 questions · 1 mark each · 5 marks

Q1. Find the odd one out: 41, 45, 54, 72, 90

- (A) 41 (B) 54 (C) 45 (D) 72

Q2. Anita walks 9 m towards north, turns right and walks 3 m, then turns right again and walks 9 m. How far is Anita from the starting point, and in which direction?

- (A) 3 m, East (B) 3 m, West (C) 9 m, East (D) 12 m, North

Q3. Which word would come FIRST in a dictionary?

- (A) mother (B) monkey (C) marble (D) minute

Q4. 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) Nephew (B) Uncle (C) Brother (D) Cousin

Q5. Pen : Write :: Knife : ____

- (A) Run (B) Cut (C) Sleep (D) Sing

Science

25 questions · 1 mark each · 25 marks

Q6. Which gas in the air do we need to breathe?

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

Q7. Which of these is a baby animal of a dog?

- (A) Calf (B) Kitten (C) Puppy (D) Chick

Q8. Which simple machine is used in a see-saw?

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

Q9. What falls from the clouds when it rains?

- (A) Sand (B) Stones (C) Water (D) Leaves

Q10. How long does the Earth take to complete one rotation on its axis?

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

Q11. Which insect makes honey?

- (A) Ant (B) Bee (C) Spider (D) Fly

- Q12. Where do fish take in oxygen from water?
- (A) Through their scales (B) Through their gills
(C) Through their fins (D) Through their tail
- Q13. What happens to ice kept in the hot sun?
- (A) It becomes a stone (B) It turns into sand
(C) It stays the same (D) It melts into water
- Q14. What is the natural satellite of the Earth called?
- (A) The Moon (B) A comet (C) The Sun (D) Mars
- Q15. Which of these is a healthy food?
- (A) Fried chips (B) Candy (C) Cold drink (D) Fruit
- Q16. Which part of a plant takes in water from the soil?
- (A) The fruit (B) The leaf (C) The root (D) The flower
- Q17. Which of these is a fruit?
- (A) Onion (B) Cabbage (C) Banana (D) Potato
- Q18. Which force pulls objects towards the Earth?
- (A) Magnetism (B) Gravity (C) Friction (D) Pressure
- Q19. Which of these is a baby animal of a cat?
- (A) Cub (B) Calf (C) Kitten (D) Puppy
- Q20. At what temperature does water boil at normal pressure?
- (A) 0°C (B) 100°C (C) 50°C (D) 212°C
- Q21. Which of these can fly?
- (A) Cow (B) Snake (C) Bird (D) Fish
- Q22. Which of these is a herbivore — an animal that eats only plants?
- (A) Lion (B) Eagle (C) Tiger (D) Cow
- Q23. Which of these do we get from a hen?
- (A) Eggs (B) Milk (C) Wool (D) Honey
- Q24. What is the process of water changing into vapour called?
- (A) Evaporation (B) Melting (C) Condensation (D) Freezing
- Q25. Which of these is used to measure length?
- (A) A clock (B) A weighing scale
(C) A ruler (D) A thermometer
- Q26. Which organ helps us to breathe?
- (A) The kidney (B) The heart (C) The stomach (D) The lungs
- Q27. How many teeth sets do humans get in a lifetime?
- (A) Three (B) Two (C) Four (D) One

Q28. Which food gives us the most energy?

(A) Carbohydrates

(B) Minerals

(C) Water

(D) Vitamins

Q29. Which sense organ do we use to taste?

(A) The nose

(B) The hands

(C) The tongue

(D) The eyes

Q30. How many legs does an insect have?

(A) Four

(B) Ten

(C) Eight

(D) Six

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. How many numbers between 60 and 80 leave a remainder of 2 when divided by 7?

(A) 4

(B) 2

(C) 5

(D) 3

Q32. Find the next number: 4, 6, 10, 16, 24, ____

(A) 34

(B) 32

(C) 35

(D) 36

Q33. Using each of the digits 0, 1, 6, 9 exactly once, what is the smallest 4-digit number that can be formed?

(A) 1069

(B) 1078

(C) 0169

(D) 9610

Q34. A country's flag has saffron on top, white in the middle with a blue wheel, and green at the bottom. Which country is it?

(A) Italy

(B) Niger

(C) India

(D) Ireland

Q35. You see a bird with a long, sharp, pointed beak catching fish. What does the beak shape tell you?

(A) It is used for sipping nectar

(B) It is suited to spearing and gripping fish

(C) It is used for digging soil

(D) It is used for cracking seeds

Answer Key

1	2	3	4	5	6	7	8	9	10
A	A	C	C	B	C	C	D	C	D
11	12	13	14	15	16	17	18	19	20
B	B	D	A	D	C	C	B	C	B
21	22	23	24	25	26	27	28	29	30
C	D	A	A	C	D	B	A	C	D
31	32	33	34	35					
D	A	A	C	B					

Solutions

Q1. (A) Every other number is a multiple of 9. 41 is not.

Q2. (A) The two 9 m walks (north, then south) cancel out, leaving only the 3 m walked towards the east. So the answer is 3 m, East.

Q3. (C) In alphabetical order the words run marble, minute, monkey, mother, so marble comes first.

- Q4. (C) 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.
- Q5. (B) The second word relates to the first in the same way Cut relates to Knife.
- Q6. (C) We breathe in oxygen and breathe out carbon dioxide.
- Q7. (C) A baby dog is called a puppy.
- Q8. (D) A see-saw is a lever balancing on a pivot called the fulcrum.
- Q9. (C) Rain is water falling from the clouds.
- Q10. (D) One rotation takes about 24 hours and gives us day and night.
- Q11. (B) Honey bees make honey in their hive.
- Q12. (B) Fish breathe using gills, which take dissolved oxygen out of the water. The answer is Through their gills.
- Q13. (D) Heat makes ice melt back into water. The answer is It melts into water.
- Q14. (A) The Moon is the Earth's only natural satellite.
- Q15. (D) Fruit gives us vitamins and keeps us healthy.
- Q16. (C) Roots absorb water and minerals from the soil and hold the plant firmly in place. The answer is The root.
- Q17. (C) A banana is a fruit; the others are vegetables.
- Q18. (B) Gravity is the force that pulls every object towards the centre of the Earth.
- Q19. (C) A baby cat is called a kitten.
- Q20. (B) Water boils at 100°C at normal atmospheric pressure.
- Q21. (C) Birds have wings and can fly.
- Q22. (D) A cow eats only plants, so it is a herbivore. Lions, tigers and eagles eat meat.
- Q23. (A) Hens lay eggs.
- Q24. (A) Evaporation is liquid water turning into vapour; condensation is the reverse.
- Q25. (C) A ruler measures length.
- Q26. (D) The lungs take in oxygen from the air and give out carbon dioxide.
- Q27. (B) We get milk teeth first and then permanent teeth, so two sets.
- Q28. (A) Carbohydrates such as rice, wheat and potato are the body's main energy food.
- Q29. (C) We taste with our tongue. The answer is The tongue.
- Q30. (D) All insects have six legs. Spiders, which have eight, are not insects.
- Q31. (D) The numbers are 65, 72, 79 — 3 of them.
- Q32. (A) The gaps grow 2, 4, 6, 8, so the next gap is 10 and $24 + 10 = 34$.
- Q33. (A) A 4-digit number cannot begin with 0, so the smallest possible first digit is 1. The remaining digits are then placed in increasing order: 1069.
- Q34. (C) That describes the Indian tricolour with the Ashoka Chakra in the white band.
- Q35. (B) Beak shape matches diet: a long pointed beak suits catching fish. The answer is It is suited to spearing and gripping fish.

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