

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. 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) E (C) D (D) C

Q2. In a certain code BUS is written as FYW. How is DOG written in that code?

- (A) HSK (B) KSH (C) ZKC (D) ITL

Q3. If today is Saturday, what day is the day after today?

- (A) Wednesday (B) Sunday (C) Tuesday (D) Monday

Q4. Find the next number in the pattern: 19, 24, 29, 34, ____

- (A) 40 (B) 44 (C) 39 (D) 34

Q5. Which letter comes next? D, F, I, M, ____

- (A) Q (B) P (C) R (D) S

Science

25 questions · 1 mark each · 25 marks

Q6. Which of these animals has a trunk?

- (A) Elephant (B) Tiger (C) Deer (D) Horse

Q7. Which of these is a non-biodegradable waste?

- (A) Cotton cloth (B) Vegetable peel
(C) Plastic bag (D) Paper

Q8. Which of these is a fruit?

- (A) Potato (B) Banana (C) Cabbage (D) Onion

Q9. Which organ helps us to breathe?

- (A) The lungs (B) The kidney (C) The heart (D) The stomach

Q10. Which of these is a baby animal of a cat?

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

- Q11. What do we call animals that are active at night?
(A) Nocturnal animals (B) Herbivores
(C) Aquatic animals (D) Amphibians
- Q12. Which of these helps us keep our teeth clean?
(A) A pencil (B) A comb (C) A spoon (D) A toothbrush
- Q13. Which gas in the air do we need to breathe?
(A) Oxygen (B) Nitrogen
(C) Carbon dioxide (D) Helium
- Q14. Which sense organ do we use to hear?
(A) The eyes (B) The skin (C) The ears (D) The nose
- Q15. Which sense organ do we use to smell?
(A) The tongue (B) The skin (C) The nose (D) The ear
- Q16. Which sense organ do we use to see?
(A) The eyes (B) The ears (C) The nose (D) The tongue
- Q17. Which part of a plant makes its food?
(A) The stem (B) The root (C) The seed (D) The leaf
- Q18. Which season is the hottest in India?
(A) Spring (B) Monsoon (C) Summer (D) Winter
- Q19. Where do fish take in oxygen from water?
(A) Through their gills (B) Through their scales
(C) Through their tail (D) Through their fins
- Q20. What do plants need to grow?
(A) Only paper (B) Only stones
(C) Water and sunlight (D) Only plastic
- Q21. What is the natural satellite of the Earth called?
(A) The Sun (B) A comet (C) The Moon (D) Mars
- Q22. Which of these is a healthy food?
(A) Fried chips (B) Candy (C) Cold drink (D) Fruit
- Q23. Which gas do plants take in during photosynthesis?
(A) Hydrogen (B) Carbon dioxide
(C) Oxygen (D) Nitrogen
- Q24. What should we do before eating food?
(A) Wash our hands (B) Play in the mud
(C) Nothing at all (D) Touch a stray animal
- Q25. Which animal is known as the ship of the desert?
(A) Elephant (B) Donkey (C) Horse (D) Camel

Q26. What do we wear in winter to keep warm?

- (A) Swimming costume (B) Cotton vests only
(C) Woollen clothes (D) Raincoat

Q27. What do we call the water cycle stage where clouds form?

- (A) Precipitation (B) Evaporation
(C) Filtration (D) Condensation

Q28. How many teeth sets do humans get in a lifetime?

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

Q29. Which part of a plant takes in water from the soil?

- (A) The fruit (B) The flower (C) The root (D) The leaf

Q30. Which of these is used to measure length?

- (A) A ruler (B) A clock
(C) A weighing scale (D) A thermometer

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. The average of 3 numbers is 22. 2 of them are 6, 23. What is the remaining number?

- (A) 35 (B) 22 (C) 39 (D) 37

Q32. 8 taps together fill a tank in 18 minutes. How long will 3 taps of the same kind take to fill it?

- (A) 18 minutes (B) 45 minutes (C) 48 minutes (D) 51 minutes

Q33. There are 5 boxes with 7 laddoos in each box. If 4 laddoos are eaten, how many are left?

- (A) 28 (B) 34 (C) 31 (D) 35

Q34. Using each of the digits 7, 0, 8, 3 exactly once, what is the smallest 4-digit number that can be formed?

- (A) 3078 (B) 0378 (C) 8730 (D) 3087

Q35. $132 + \underline{\quad} = 156$

- (A) 14 (B) 156 (C) 24 (D) 34

Answer Key

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

Solutions

- Q1. (B) Seat 1 = A, seat 3 = C, seat 5 = D. B must be between A and C, so B takes seat 2, and the only friend left for seat 4 is E.
- Q2. (A) Each letter moves 4 place(s) forward in the alphabet, so DOG becomes HSK.
- Q3. (B) Counting 1 day(s) on from Saturday gives Sunday.
- Q4. (C) Each number is 5 more than the one before it, so the next is $34 + 5 = 39$.
- Q5. (C) The gaps grow by one each time (+2, +3, +4, +5), so after M the next letter is R.
- Q6. (A) The elephant has a long trunk.
- Q7. (C) Plastic does not rot away naturally, so it is non-biodegradable. The answer is Plastic bag.
- Q8. (B) A banana is a fruit; the others are vegetables.
- Q9. (A) The lungs take in oxygen from the air and give out carbon dioxide.
- Q10. (B) A baby cat is called a kitten.
- Q11. (A) Animals such as owls and bats that are active at night are called nocturnal. The answer is Nocturnal animals.
- Q12. (D) We clean our teeth with a toothbrush.
- Q13. (A) We breathe in oxygen and breathe out carbon dioxide.
- Q14. (C) We hear with our ears. The answer is The ears.
- Q15. (C) The nose is the sense organ for smell.
- Q16. (A) We see with our eyes. The answer is The eyes.
- Q17. (D) Leaves make food by photosynthesis, using sunlight, water and carbon dioxide. The answer is The leaf.
- Q18. (C) Summer is the hottest season.
- Q19. (A) Fish breathe using gills, which take dissolved oxygen out of the water. The answer is Through their gills.
- Q20. (C) Plants need water, sunlight, air and soil to grow. The answer is Water and sunlight.
- Q21. (C) The Moon is the Earth's only natural satellite.
- Q22. (D) Fruit gives us vitamins and keeps us healthy.
- Q23. (B) Plants take in carbon dioxide and release oxygen during photosynthesis.
- Q24. (A) Washing hands before eating keeps germs away. The answer is Wash our hands.
- Q25. (D) The camel can travel long distances across the desert with very little water.
- Q26. (C) Wool traps warm air and keeps us warm. The answer is Woollen clothes.
- Q27. (D) Water vapour cools and condenses into tiny droplets, forming clouds. The answer is Condensation.
- Q28. (D) We get milk teeth first and then permanent teeth, so two sets.
- Q29. (C) Roots absorb water and minerals from the soil and hold the plant firmly in place. The answer is The root.
- Q30. (A) A ruler measures length.
- Q31. (D) The 3 numbers add up to $22 \times 3 = 66$. The given numbers add up to 29, so the missing number is $66 - 29 = 37$.
- Q32. (C) One tap alone would take $8 \times 18 = 144$ minutes. With 3 taps the time is $144 / 3 = 48$ minutes.
- Q33. (C) $5 \times 7 = 35$ laddoos in all, and $35 - 4 = 31$ are left.
- Q34. (A) A 4-digit number cannot begin with 0, so the smallest possible first digit is 3. The remaining digits are then placed in increasing order: 3078.
- Q35. (C) The missing number is $156 - 132 = 24$.

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