STUDENT COPY · SET B

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. Which word would come FIRST in a dictionary?

(A) mother (B) minute (C) monkey (D) matter

Q2. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is SUN written?

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

Q3. All but one of these numbers are multiples of the same number. Find the one that is not: 12, 18, 23, 24, 33

(A) 23 (B) 12 (C) 33 (D) 24

Q4. Meera walks 3 m towards north, turns right and walks 6 m, then turns right again and walks 3 m. How far is Meera from the starting point, and in which direction?

(A) 3 m, East (B) 6 m, West (C) 6 m, East (D) 9 m, North

Q5. Pointing to a boy in a photograph, Rahul said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Rahul?

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

Q6. 4 : 16 :: 9 : ___

(A) 81 (B) 100 (C) 18 (D) 64

Q7. In the first row the numbers are 3, 3 and 10. In the second row they are 8, 8 and 65. In the third row they are 6, 3 and ___ . The same rule applies to every row.

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

Q8. In a row of 33 children, Sana is 29th from the left end. What is Sana’s position from the right end?

(A) 5th (B) 6th (C) 4th (D) 7th

Q9. Which of these figures has exactly 2 lines of symmetry?



(A) (B) (C) (D)

Q10. In a class, 24 students play cricket, 18 play football and 10 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 33 (B) 22 (C) 42 (D) 32

Science

35 questions · 1 mark each · 35 marks

Q11. What is the process of separating salt from sea water by heating called?

(A) Evaporation (B) Filtration

(C) Sublimation (D) Distillation of solids

Q12. Water freezes into ice at which temperature?

(A) 0°C (B) 10°C (C) -100°C (D) 100°C

Q13. What is the SI unit of electric current?

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

Q14. How many bones does an adult human body have?

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

Q15. How long does the Earth take to complete one rotation on its axis?

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

Q16. How many atoms of oxygen are there in one molecule of carbon dioxide?

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

Q17. What is the basic unit of life?

(A) The cell (B) The atom (C) The organ (D) The tissue

Q18. An echo is caused by:

(A) Absorption of sound (B) Dispersion of sound

(C) Refraction of sound (D) Reflection of sound

Q19. Light travels fastest through which of these?

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

Q20. Which of these is a good conductor of electricity?

(A) Rubber (B) Copper (C) Wood (D) Plastic

Q21. Which colour of white light bends the most when passing through a prism?

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

Q22. What is the acceleration due to gravity on Earth, approximately?

(A) About 1.6 m/s² (B) About 98 m/s²

(C) About 3.7 m/s² (D) About 9.8 m/s²

Q23. What is the chemical symbol for sodium?

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

Q24. Which nutrient is the main source of energy for our body?

(A) Carbohydrates (B) Minerals

(C) Vitamins (D) Water

Q25. Which part of the plant develops into a fruit?

(A) The ovary (B) The stamen (C) The sepal (D) The petal

Q26. How many planets are there in our solar system?

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

Q27. Green colour in leaves is due to which pigment?

(A) Haemoglobin (B) Carotene (C) Chlorophyll (D) Melanin

Q28. What happens to the speed of light when it enters glass from air?

(A) It becomes zero (B) It increases

(C) It stays the same (D) It decreases

Q29. What is the unit of force?

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

Q30. Which of these is a major cause of global warming?

(A) Planting more trees (B) Walking to school

(C) Using solar energy (D) Excess carbon dioxide in the atmosphere

Q31. What is the natural satellite of the Earth called?

(A) The Moon (B) A comet (C) The Sun (D) Mars

Q32. Which of these is an acid?

(A) Soap solution (B) Baking soda solution

(C) Lemon juice (D) Lime water

Q33. Which gas is produced when an acid reacts with a metal?

(A) Chlorine (B) Oxygen (C) Hydrogen (D) Nitrogen

Q34. Sound cannot travel through which of these?

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

Q35. What is the SI unit of energy?

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

Q36. What kind of energy is stored in a stretched rubber band?

(A) Sound energy (B) Kinetic energy

(C) Potential energy (D) Light energy

Q37. Which blood cells help fight infection?

(A) Plasma
(B) White blood cells
(C) Platelets
(D) Red blood cells

Q38. Which device converts electrical energy into light energy?

(A) A battery
(B) An electric bulb
(C) A dynamo
(D) A microphone

Q39. What is the pH value of a neutral solution?

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

Q40. Loss of water vapour from the leaves of a plant is called:

(A) Condensation
(B) Germination
(C) Transpiration
(D) Respiration

Q41. Deficiency of which vitamin causes scurvy?

(A) Vitamin C (B) Vitamin B12 (C) Vitamin A (D) Vitamin D

Q42. Which liquid helps digest food in the mouth?

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

Q43. Which of these materials is attracted by a magnet?

(A) Paper (B) Iron (C) Glass (D) Cloth

Q44. Which organ removes waste from the blood and makes urine?

(A) The kidney (B) The heart (C) The lung (D) The liver

Q45. What is the chemical formula of water?

(A) O_2 (B) NaCl (C) CO_2 (D) H_2O

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. A small pan of burning cooking oil is safely covered with a metal lid. Which condition for burning is mainly removed?

(A) High temperature of the oil
(B) Heat stored in the metal lid
(C) Supply of oxygen from air
(D) Presence of fuel in the pan

Q47. A maker wants a handle for a hot iron pan. It should be a poor conductor and should not soften on heating. Which material suits best?

(A) Bakelite plastic
(B) Polythene plastic
(C) PET plastic
(D) PVC plastic

Q48. A boy pushes a heavy box but it does not move. Which force is stopping it?

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

Q49. A slide shows cells with a cell wall, a nucleus and many chloroplasts. From which sample was it most likely prepared?

(A) Human cheek lining
(B) Onion inner peel
(C) Spinach leaf
(D) Bean root tip

Q50. A candle gives a yellow sooty flame. Which change will make the flame hotter and leave less black deposit on a cold spoon?

(A) Cover the flame with a jar

(B) Make the wick much longer

(C) Allow more air to reach the wick

(D) Hold the spoon closer to wax

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