STUDENT COPY · SET B

Class 9 · 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. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is BUS written?

(A) 2 - 21 - 19 (B) 25 - 6 - 8 (C) 19 - 21 - 2 (D) 3 - 22 - 20

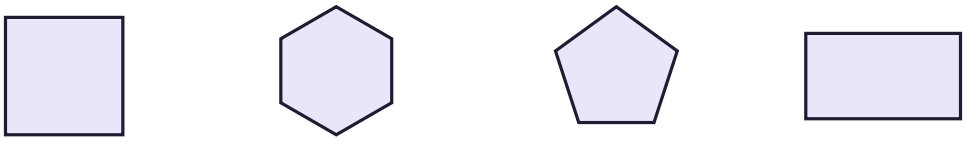
Q2. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Crow (B) Sparrow (C) Snake (D) Pigeon

Q3. Which word would come FIRST in a dictionary?

(A) monkey (B) maple (C) metal (D) marble

Q4. Which of these figures has exactly 5 lines of symmetry?



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

Q5. Which letter comes next? G, I, K, M, ___

(A) N (B) Q (C) P (D) O

Q6. Arun walks 4 m north, then 9 m east, then 3 m south. Where is Arun now, relative to the starting point?

(A) 4 m north and 9 m east (B) 1 m north and 9 m east

(C) 2 m north and 9 m east (D) 1 m north and 10 m east

Q7. If the 15th of a month is a Thursday, what day of the week is the 31st of the same month?

(A) Sunday (B) Saturday (C) Monday (D) Friday

Q8. All but one of these numbers are multiples of the same number. Find the one that is not: 18, 54, 72, 83, 99

(A) 83 (B) 99 (C) 72 (D) 18

Q9. Which letter comes next? G, I, L, P, ___

(A) S (B) T (C) V (D) U

Q10. In a queue, Farah is 5th from the front and 4th from the back. How many people are in the queue altogether?

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

Science

35 questions · 1 mark each · 35 marks

Q11. Which gas is produced when an acid reacts with a metal?

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

Q12. A mixture has sand, common salt and ammonium chloride. Which order best separates dry common salt?

(A) Dissolve, filter, sublime, evaporate (B) Sublime, dissolve, filter, evaporate

(C) Sublime, filter, dissolve, evaporate (D) Dissolve, evaporate, filter, sublime

Q13. On a smooth floor, Asha pushes two identical trolleys with the same force. One is empty; one carries books. Which trolley has greater acceleration?

(A) The empty trolley (B) The loaded trolley

(C) Neither accelerates at all (D) Both accelerate equally

Q14. Which blood group is called the universal donor?

(A) AB positive (B) A positive (C) B negative (D) O negative

Q15. A farmer wants wheat plants that give high yield and resist a local disease. Which method best combines these traits from two varieties?

(A) Selection (B) Hybridisation

(C) Irrigation (D) Manuring

Q16. Which gas do living things release during respiration?

(A) Nitrogen (B) Hydrogen

(C) Oxygen (D) Carbon dioxide

Q17. What is the chemical formula of water?

(A) CO2 (B) NaCl (C) O2 (D) H2O

Q18. After uncovered water tanks stay filled, fever cases rise; covering and draining tanks reduces them. Which route was mainly blocked?

(A) Air droplets (B) Mosquito vector

(C) Direct skin contact (D) Contaminated food

Q19. Which part of the human body produces insulin?

(A) The liver (B) The kidney (C) The spleen (D) The pancreas

Q20. Which vitamin does our skin make when sunlight falls on it?

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

Q21. At what temperature does water boil at normal pressure?

(A) 0°C (B) 50°C (C) 212°C (D) 100°C

Q22. Water freezes into ice at which temperature?

(A) 100°C (B) 10°C (C) -100°C (D) 0°C

Q23. Which layer of the atmosphere protects us from harmful ultraviolet rays?

(A) The troposphere (B) The ozone layer

(C) The exosphere (D) The magnetosphere

Q24. Which is the smallest particle of an element that can take part in a reaction?

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

Q25. Which process do green plants use to make their own food?

(A) Digestion (B) Photosynthesis

(C) Respiration (D) Transpiration

Q26. Green colour in leaves is due to which pigment?

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

Q27. Which organ removes waste from the blood and makes urine?

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

Q28. What is the acceleration due to gravity on Earth, approximately?

(A) About 98 m/s² (B) About 9.8 m/s²

(C) About 1.6 m/s² (D) About 3.7 m/s²

Q29. Which gas makes up most of the air around us?

(A) Hydrogen (B) Oxygen

(C) Carbon dioxide (D) Nitrogen

Q30. Which gas do plants take in during photosynthesis?

(A) Oxygen (B) Nitrogen

(C) Hydrogen (D) Carbon dioxide

Q31. An eclipse of the Sun happens when:

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

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

Q32. 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

Q33. What is the SI unit of power?

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

Q34. Sound cannot travel through which of these?

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

Q35. Deficiency of which vitamin causes scurvy?

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

Q36. An echo is caused by:

(A) Reflection of sound (B) Dispersion of sound

(C) Absorption of sound (D) Refraction of sound

Q37. What is the unit of force?

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

Q38. How many atoms of oxygen are there in one molecule of carbon dioxide?

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

Q39. Which part of the human eye controls how much light enters?

(A) The cornea (B) The retina

(C) The optic nerve (D) The iris

Q40. What causes the change of seasons on the Earth?

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

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

Q41. Which mirror is used as a rear-view mirror in vehicles?

(A) A cylindrical lens (B) A concave mirror

(C) A plane mirror (D) A convex mirror

Q42. Which of these is a good conductor of electricity?

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

Q43. Rusting of iron needs which two things?

(A) Oxygen and salt only (B) Nitrogen and water

(C) Carbon dioxide and water (D) Oxygen and water

Q44. Which part of the plant develops into a fruit?

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

Q45. How many planets are there in our solar system?

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. A student walks 30 m east, then 40 m north in 70 s. What are his average speed and magnitude of average velocity?

(A) 5/7 m/s and 1 m/s (B) 1 m/s and 1 m/s

(C) 1 m/s and 5/7 m/s (D) 5/7 m/s and 5/7 m/s

Q47. You see a bird with a long, sharp, pointed beak catching fish. What does the beak shape tell you?

(A) It is used for digging soil
(B) It is used for cracking seeds
(C) It is suited to spearing and gripping fish
(D) It is used for sipping nectar

Q48. Fresh potato strips are equal in size. One is kept in pure water and one in strong salt solution for an hour. Which observation is most likely?

(A) Both strips become equally firm
(B) Water strip limp, salt strip firm
(C) Water strip firm, salt strip limp
(D) Both strips lose water and shrink

Q49. A peeled potato cup containing sugar syrup is kept in a dish of water. After some time, the syrup level rises. What is the best explanation?

(A) Water enters by osmosis through potato cells
(B) Water enters by diffusion through cell walls
(C) Sugar enters cells by osmosis from syrup
(D) Sugar diffuses out into surrounding water

Q50. On a humid day, wet clothes dry slowly though the temperature is high. Which factor mainly reduces the rate of evaporation?

(A) High kinetic energy of water molecules
(B) Fast movement of surrounding air
(C) Large surface area of the wet cloth
(D) High amount of water vapour in air

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