STUDENT COPY · SET B

Class 7 · 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. In a class, 7 students play cricket, 18 play football and 3 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 23 (B) 22 (C) 19 (D) 25

Q2. If the 18th of a month is a Sunday, what day of the week is the 27th of the same month?

(A) Thursday (B) Tuesday (C) Monday (D) Wednesday

Q3. All but one of these numbers are multiples of the same number. Find the one that is not: 24, 36, 56, 108, 132

(A) 132 (B) 56 (C) 108 (D) 36

Q4. Which of these figures has exactly 2 lines of symmetry?



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

Q5. In a row of 29 children, Sana is 17th from the left end. What is Sana's position from the right end?

(A) 15th (B) 14th (C) 12th (D) 13th

Q6. Read the statements and choose the conclusion that MUST be true.
All metals conduct electricity. Copper is a metal.

(A) All conductors are copper.
(B) Only copper is a metal.
(C) Copper does not conduct electricity.
(D) Copper conducts electricity.

Q7. In a queue, Deep is 7th from the front and 7th from the back. How many people are in the queue altogether?

(A) 12 (B) 14 (C) 15 (D) 13

Q8. 5 : 25 :: 3 : ___

(A) 6 (B) 16 (C) 9 (D) 4

Q9. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is BUS written?

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

Q10. In a certain code JAR is written as KBS. How is BAT written in that code?

(A) UBC (B) CBU (C) AZS (D) DCV

Science

35 questions · 1 mark each · 35 marks

Q11. Four students cycle on straight roads. Who has the greatest speed?

(A) Dev: 500 m in 5 min (B) Anu: 100 m in 40 s

(C) Chetan: 1 km in 10 min (D) Bina: 60 m in 30 s

Q12. What is the process of water changing into vapour called?

(A) Evaporation (B) Condensation (C) Melting (D) Freezing

Q13. On a warm afternoon, air over land becomes hotter than air over a lake. Which wind is most likely?

(A) No horizontal wind near the ground (B) Straight upward over the lake

(C) From land to lake near the ground (D) From lake to land near the ground

Q14. Turmeric stain on a plate turns reddish brown with soap solution and yellow again with lemon juice. What are soap and lemon juice?

(A) Soap is basic; lemon juice is acidic (B) Both soap and lemon juice are basic

(C) Both soap and lemon juice are acidic (D) Soap is acidic; lemon juice is basic

Q15. Turmeric on a hand turns reddish after soap. Which liquid should make it yellow again?

(A) Lemon juice (B) Washing soda solution

(C) Lime water (D) Baking soda solution

Q16. An iron nail is kept in four test tubes. In which condition will rusting be fastest?

(A) Boiled water covered with oil (B) Dry air with a drying agent

(C) Moist air around the nail (D) Nail fully dipped in cooking oil

Q17. What kind of energy does a moving object have?

(A) Sound energy (B) Kinetic energy

(C) Nuclear energy (D) Chemical energy

Q18. A white flower on a cut stem is kept in red-coloured water. Its petals turn red mainly because water moves through...

(A) vessels in the stem (B) food made in leaves

(C) root hairs in the soil (D) stomata on the petals

Q19. Green colour in leaves is due to which pigment?

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

Q20. On a sunny afternoon near the sea, land becomes hotter than water. Which near-surface wind is expected?

(A) From sea towards land (B) From land towards sea

(C) Straight upward over sea (D) Straight downward over land

Q21. A child has normal teeth but very little bile reaches the small intestine. Which digestion will be most affected?

(A) Fat digestion in the small intestine (B) Protein digestion in the stomach

(C) Water absorption in the large intestine (D) Starch digestion in the mouth

Q22. A colony wants to increase groundwater recharge during rains. Which plan helps most directly?

(A) Cover open ground with cement (B) Wash cars with a hose daily

(C) Pump borewell water to a tank (D) Lead roof rainwater to a soak pit

Q23. What is the chemical formula of water?

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

Q24. Four leaves of a destarched plant are kept in sunlight. Which leaf is likely to form the least starch?

(A) Leaf kept flat on a support (B) Leaf tied loosely with thread

(C) Leaf sprayed with clean water (D) Leaf greased on both surfaces

Q25. What colour does blue litmus paper turn in an acid?

(A) It stays blue (B) Yellow

(C) Green (D) Red

Q26. Meera stands 2 m from a plane mirror, then moves 1 m closer. How does the distance between Meera and her image change?

(A) it decreases by 2 m (B) it remains the same

(C) it decreases by 1 m (D) it increases by 2 m

Q27. Which force pulls objects towards the Earth?

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

Q28. Which planet is nearest to the Sun?

(A) Mercury (B) Earth (C) Venus (D) Mars

Q29. Which of these is an acid?

(A) Lime water (B) Lemon juice

(C) Soap solution (D) Baking soda solution

Q30. What is the basic unit of life?

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

Q31. What do we call the water cycle stage where clouds form?

(A) Precipitation (B) Condensation

(C) Filtration (D) Evaporation

Q32. 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

Q33. Which gas do plants take in during photosynthesis?

(A) Hydrogen (B) Oxygen

(C) Nitrogen (D) Carbon dioxide

Q34. Which of these is a renewable source of energy?

(A) Coal (B) Petrol (C) Diesel (D) Solar energy

Q35. At what temperature does water boil at normal pressure?

(A) 212°C (B) 50°C (C) 0°C (D) 100°C

Q36. Common salt is chemically known as:

(A) Sodium chloride (B) Sodium bicarbonate

(C) Calcium carbonate (D) Potassium nitrate

Q37. Water freezes into ice at which temperature?

(A) 0°C (B) 100°C (C) -100°C (D) 10°C

Q38. How long does the Earth take to complete one rotation on its axis?

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

Q39. Which part of the cell controls its activities?

(A) The cytoplasm (B) The cell wall

(C) The nucleus (D) The vacuole

Q40. Which part of the plant develops into a fruit?

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

Q41. How many planets are there in our solar system?

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

Q42. What is the unit of force?

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

Q43. Which liquid helps digest food in the mouth?

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

Q44. Which blood cells help fight infection?

(A) Platelets (B) Plasma

(C) Red blood cells (D) White blood cells

Q45. Which is the smallest particle of an element that can take part in a reaction?

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. During a storm, a loosely fixed tin roof may lift upward. Which reason best explains this?

(A) fast wind makes lower pressure above
(B) fast wind makes equal pressure everywhere
(C) fast wind makes lower pressure below
(D) fast wind makes higher pressure above

Q47. Rohan gets an ant bite, which injects an acid into the skin. Which household substance would neutralise it best?

(A) Tamarind water
(B) Lemon juice
(C) Baking soda solution
(D) Vinegar

Q48. A destarched variegated leaf is kept in sunlight with one strip covered by black paper, then tested with iodine. Which part turns blue-black?

(A) White part covered by paper
(B) Green part covered by paper
(C) White part exposed to light
(D) Green part exposed to light

Q49. A garden soil lets water pass through very quickly and dries soon. Which mixture should be added to improve water holding?

(A) Coarse sand only
(B) Pebbles and sand
(C) Sand and gravel
(D) Clay and humus

Q50. A boy pushes a heavy box but it does not move. Which force is stopping it?

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

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