STUDENT COPY · SET B

Class 6 · 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 row of 33 children, Imran is 23rd from the left end. What is Imran's position from the right end?

(A) 13th (B) 12th (C) 11th (D) 10th

Q2. Which one does NOT belong with the others?

(A) Bat (B) Sparrow (C) Eagle (D) Parrot

Q3. Which of these figures has exactly 2 lines of symmetry?



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

Q4. 6 : 36 :: 8 : ___

(A) 64 (B) 16 (C) 81 (D) 49

Q5. All but one of these numbers are multiples of the same number. Find the one that is not: 16, 21, 63, 70, 77

(A) 70 (B) 16 (C) 63 (D) 21

Q6. Nila walks 10 m north, then 5 m east, then 2 m south. Where is Nila now, relative to the starting point?

(A) 9 m north and 5 m east
(B) 10 m north and 5 m east
(C) 8 m north and 5 m east
(D) 8 m north and 6 m east

Q7. A father is 31 years older than his son. The son is 8 years old now. How old will the father be after 8 years?

(A) 48 years (B) 55 years (C) 39 years (D) 47 years

Q8. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is PEN written?

(A) 16 - 5 - 14 (B) 11 - 22 - 13 (C) 14 - 5 - 16 (D) 17 - 6 - 15

Q9. In the first row the numbers are 8, 9 and 75. In the second row they are 4, 2 and 11. In the third row they are 7, 6 and ___ . The same rule applies to every row.

(A) 46 (B) 44 (C) 47 (D) 45

Q10. In a queue, Suresh is 11th from the front and 4th from the back. How many people are in the queue altogether?

(A) 13 (B) 16 (C) 14 (D) 15

Science

35 questions · 1 mark each · 35 marks

Q11. Which organ pumps blood around the body?

(A) The brain (B) The lungs (C) The liver (D) The heart

Q12. A mixture has iron pins, sand and salt. Which order can separate all three using simple methods?

(A) Dissolve in water, magnet, evaporate, filter (B) Evaporate, filter, magnet, dissolve in water

(C) Magnet, dissolve in water, filter, evaporate (D) Filter, magnet, dissolve in water, evaporate

Q13. Which gas in the air do we need to breathe?

(A) Nitrogen (B) Carbon dioxide

(C) Helium (D) Oxygen

Q14. A plant has broad leaves with net-like veins and one main root with side roots. Which plant fits best?

(A) grass plant (B) maize plant (C) wheat plant (D) pea plant

Q15. Deficiency of which vitamin causes scurvy?

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

Q16. A torch, ball and screen are in a line. If the screen is moved closer to the ball, with torch and ball fixed, the shadow will become...

(A) smaller (B) coloured (C) brighter (D) larger

Q17. A food sample turns blue-black with iodine but shows no violet colour in the protein test. Which nutrient is clearly present?

(A) protein (B) fat (C) vitamin C (D) starch

Q18. Sound cannot travel through which of these?

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

Q19. A lunch box has rice and potato sabzi only. Which addition best improves the body-building part of the meal?

(A) Sweet chutney (B) Extra rice

(C) Boiled dal (D) Fried chips

Q20. Four iron pins stick mostly near the two ends of a bar magnet, not near its middle. What should Anu conclude?

(A) magnetic force is strongest at the poles
(B) the centre is the strongest part
(C) magnetic force is equal everywhere
(D) only the north pole attracts iron

Q21. What is the basic unit of life?

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

Q22. Which camel feature most directly helps it save water in a hot desert?

(A) Having broad padded feet
(B) Passing very little urine
(C) Having long eyelashes
(D) Having long strong legs

Q23. An upside-down glass is pushed into water and traps air. What should you do to let water enter the glass fastest?

(A) keep it exactly vertical
(B) tilt the glass
(C) cover its mouth
(D) push it deeper upright

Q24. What kind of energy does a moving object have?

(A) Nuclear energy
(B) Sound energy
(C) Chemical energy
(D) Kinetic energy

Q25. An inverted empty glass is pushed straight down into a tub. Which property of air explains why water enters only a little at first?

(A) Air occupies space
(B) Air has no colour
(C) Air is a mixture
(D) Air supports burning

Q26. Which planet is known as the Red Planet?

(A) Venus (B) Saturn (C) Mars (D) Jupiter

Q27. An iron rim is heated before fitting on a wooden wheel, then cooled to grip tightly. Which changes are used?

(A) contraction then expansion
(B) evaporation then condensation
(C) expansion then contraction
(D) melting then freezing

Q28. Which of these is a good conductor of electricity?

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

Q29. Meena's lunch has rice, potato curry and jaggery. Which item best adds a body-building nutrient to make it more balanced?

(A) A piece of jaggery
(B) A little extra rice
(C) A spoon of ghee
(D) A bowl of dal

Q30. A beaker has sand, salt and water. To obtain dry salt, which order is most suitable after stirring well?

(A) filter, then evaporate residue
(B) filter, then evaporate filtrate
(C) evaporate, then filter residue
(D) sieve, then dry the residue

Q31. Which gas makes up most of the air around us?

(A) Nitrogen (B) Oxygen

(C) Carbon dioxide (D) Hydrogen

Q32. To measure the curved edge of a leaf, Anu first lays a thread along it and then measures the thread. Why is this suitable?

(A) leaf edge becomes straight (B) thread is a standard unit

(C) ruler cannot measure length (D) thread can follow the curve

Q33. What is the natural satellite of the Earth called?

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

Q34. A pea flower loses petals and later forms a green pod. Which flower part developed into the pod?

(A) Sepal (B) Anther (C) Stigma (D) Ovary

Q35. A ball is between a torch and a screen. Which action will make the shadow of the ball larger?

(A) move the ball closer to the screen (B) move the screen closer to the ball

(C) move the ball closer to the torch (D) use a smaller ball in the same place

Q36. Which of these is a non-biodegradable waste?

(A) Paper (B) Plastic bag

(C) Cotton cloth (D) Vegetable peel

Q37. A child often has bleeding gums and hard stools. Which tiffin choice helps both problems best?

(A) poori with butter (B) noodles with paneer

(C) rice with curd (D) chapati with guava slices

Q38. What colour does blue litmus paper turn in an acid?

(A) It stays blue (B) Yellow

(C) Red (D) Green

Q39. Equal wet handkerchiefs are kept in shade: one spread out, one folded. Which dries faster and why?

(A) Folded, due to faster evaporation (B) Folded, due to condensation

(C) Spread out, due to faster evaporation (D) Spread out, due to condensation

Q40. A torch, ball and wall make a shadow. Without changing the torch, how can the shadow of the ball be made larger?

(A) Move the ball nearer the wall (B) Move the ball nearer the torch

(C) Make the room brighter (D) Turn the ball slowly

Q41. A seedling has long narrow leaves with parallel veins. Which root system is most likely to be found in it?

(A) Storage roots (B) Fibrous roots

(C) Tap roots (D) Prop roots

Q42. Which part of a plant makes its food?

(A) The leaf (B) The seed (C) The root (D) The stem

Q43. For a jar that lets you see sugar crystals and does not soak water, which property pair is best?

(A) Opaque and porous
(B) Opaque and non-porous
(C) Transparent and non-porous
(D) Transparent and porous

Q44. A bar magnet is cut into two equal pieces. What is true about each piece?

(A) Both pieces lose all magnetism
(B) Each piece has two poles
(C) Only one piece remains magnetic
(D) Each piece has only one pole

Q45. Green colour in leaves is due to which pigment?

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. You see a bird with a long, sharp, pointed beak catching fish. What does the beak shape tell you?

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

Q47. A small plant has long narrow leaves with parallel veins. If you gently remove it from moist soil, which root system should you expect?

(A) stilt roots
(B) tap root
(C) prop roots
(D) fibrous roots

Q48. A small grass-like plant has long narrow leaves with parallel veins. If you dig gently near its stem, which root system is most likely?

(A) One swollen storage root
(B) One main root with side roots
(C) Several roots hanging from branches
(D) Many thin roots from base

Q49. While a candle burns, wax near the flame melts and the wick burns to ash. Which statement is correct?

(A) Melting wax is reversible; burning wick is not
(B) Melting wax is not reversible; burning wick is
(C) Wax and wick changes are both reversible
(D) Wax and wick changes are both irreversible

Q50. A bowler swings the arm in a circle at the shoulder and then bends it at the elbow. Which two joint types are mainly used?

(A) Pivot; hinge
(B) Hinge; fixed
(C) Gliding; fixed
(D) Ball-and-socket; hinge

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