STUDENT COPY · SET B

# Class 5 · 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 letter comes next? F, H, K, O, ___

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

Q2. In a certain code JAR is written as KBS. How is PEN written in that code?

(A) ODM (B) RGP (C) QFO (D) OFQ

Q3. In the first row the numbers are 7, 6 and 43. In the second row they are 8, 9 and 73. In the third row they are 7, 9 and ___ . The same rule applies to every row.

(A) 63 (B) 65 (C) 64 (D) 66

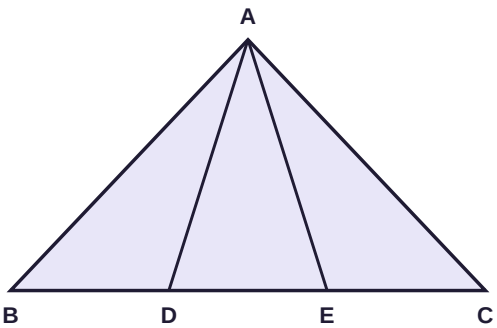
Q4. In a queue, Deep is 12th from the front and 11th from the back. How many people are in the queue altogether?

(A) 24 (B) 22 (C) 21 (D) 23

Q5. In a row of 28 children, Arjun is 14th from the left end. What is Arjun's position from the right end?

(A) 14th (B) 17th (C) 15th (D) 16th

Q6. How many triangles are there in the given figure?




(A) 7 (B) 8 (C) 6 (D) 5

Q7. Which word would come FIRST in a dictionary?

(A) matter (B) marble (C) mango (D) mother

Q8. All but one of these numbers are multiples of the same number. Find the one that is not: 18, 27, 42, 72, 81

(A) 42 (B) 81 (C) 72 (D) 27

Q9. In a class, 17 students play cricket, 11 play football and 7 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 14 (B) 21 (C) 22 (D) 28

Q10. If the 18th of a month is a Wednesday, what day of the week is the 27th of the same month?

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

## Science

35 questions · 1 mark each · 35 marks

Q11. Which part of a plant makes its food?

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

Q12. A bean seed sprouts in a dark cupboard, then becomes pale and weak. What is missing for the young plant to make its own food?

(A) Air (B) Sunlight (C) Warmth (D) Moisture

Q13. A meal has rice, dal and ghee but no fruit or vegetable. Which nutrients are most missing for protection?

(A) Fats (B) Carbohydrates

(C) Proteins (D) Vitamins and minerals

Q14. A mineral can be scratched by a fingernail but not by a cloth. Which property is being tested?

(A) Hardness (B) Magnetism (C) Transparency (D) Lustre

Q15. Which sign best shows that sewage is polluting a pond?

(A) Lotus flowers opening (B) Fish gasping near top

(C) Clear water with pebbles (D) Dragonflies over water

Q16. Riya sees a ball coming, jumps aside, and breathes faster. Which matching is correct?

(A) Lungs signal, nerves support, bones take oxygen (B) Nerves support, lungs signal, bones take oxygen

(C) Nerves signal, bones support, lungs take in oxygen (D) Bones signal, lungs support, nerves take oxygen

Q17. Which of these materials is attracted by a magnet?

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

Q18. Which change can be reversed most easily by heating?

(A) milk turning into curd (B) water freezing into ice

(C) egg boiling in water (D) paper burning to ash

Q19. During breathing in, ribs rise and the diaphragm moves down. What happens to the space inside the chest?

(A) It becomes solid
(B) It becomes smaller
(C) It becomes larger
(D) It stays squeezed

Q20. Aman pulls his hand away from a hot tawa before he thinks about it. Which part mainly controls this quick reflex?

(A) sense organ (B) cerebellum (C) spinal cord (D) cerebrum

Q21. What is the process of water changing into vapour called?

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

Q22. A bottle opener lifts a cap using the bottle rim as a support. Which simple machine is it mainly acting as?

(A) Wheel and axle
(B) Wedge
(C) Pulley
(D) Lever

Q23. How long does the Earth take to complete one rotation on its axis?

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

Q24. A metal spoon and a wooden spoon stand in hot dal. Which spoon handle feels hot first?

(A) Metal, because it blocks heat better
(B) Metal, because it conducts heat better
(C) Wood, because it conducts heat better
(D) Wood, because it stores heat better

Q25. Sita gets a small burn from hot tea. What should be done first?

(A) Hold under cool running water
(B) Prick any blister
(C) Rub with dry cloth
(D) Apply butter on burn

Q26. Which of these is a renewable source of energy?

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

Q27. Two same-sized grey rocks are tested. P scratches a steel nail; Q does not. Which property mainly differs?

(A) Layering (B) Lustre (C) Hardness (D) Colour

Q28. Before Neha realises, she pulls her finger away from a hot cup. Which body part carried the warning message?

(A) muscles (B) veins (C) nerves (D) arteries

Q29. Which force pulls objects towards the Earth?

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

Q30. Which activity reduces air pollution near a school most directly?

(A) Washing the school bus
(B) Honking less often
(C) Walking for short trips
(D) Painting classroom walls

Q31. Which organ pumps blood around the body?

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

Q32. A lunch has only rice, potato and puri. Which addition improves its balance the most?

(A) Dal with vegetables
(B) Sweet jalebi
(C) Extra steamed rice
(D) Fried papad

Q33. An animal lays eggs in water; its young has gills first and later lives on land too. It is most likely a...

(A) Reptile
(B) Fish
(C) Amphibian
(D) Mammal

Q34. In a quick reflex, which part sends the order to pull the hand back before we decide?

(A) Sense organs
(B) Cerebellum
(C) Cerebrum
(D) Spinal cord

Q35. Which simple machine is used in a see-saw?

(A) Screw
(B) Lever
(C) Wedge
(D) Pulley

Q36. Which tiffin is the best balanced choice for a school day?

(A) Rice, pickle and fried papad
(B) White bread, jam and chips
(C) Roti, dal, vegetable and curd
(D) Noodles, sauce and sweet drink

Q37. Anu's lunch has only rice and potato. Which addition makes it more balanced?

(A) dal and green vegetables
(B) sweet and fried puri
(C) butter and sugar
(D) more rice and potato

Q38. A heavy box must be moved into a truck. Which method uses a simple machine to reduce the effort?

(A) Carry it while climbing steps
(B) Lift it straight up by hand
(C) Push it up a long ramp
(D) Drag it over rough ground

Q39. Why does the same Moon look like different shapes during a month?

(A) clouds cut off Moon parts
(B) Earth's shadow falls nightly
(C) we see different sunlit parts
(D) Moon changes its real shape

Q40. Which gas do plants take in during photosynthesis?

(A) Oxygen
(B) Hydrogen
(C) Carbon dioxide
(D) Nitrogen

Q41. Why is pushing a heavy box up a long ramp easier than lifting it straight up?

(A) Less force is needed
(B) Less distance is moved
(C) More height is gained
(D) No work is done

Q42. Ravi chooses a stone for grinding spices. Which property is most useful?

(A) smooth and brittle
(B) hard and rough
(C) soft and shiny
(D) light and crumbly

Q43. A frog lays eggs in water, but a lizard can lay eggs on land. What helps lizard eggs survive on land?

(A) A soft moist cover
(B) No outer covering
(C) A leathery shell
(D) A jelly-like coat

Q44. The Moon appears in different shapes during a month mainly because

(A) we see different lit parts
(B) clouds cut its round shape
(C) Earth's shadow always covers it
(D) its size keeps changing

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

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

## Achievers Section

5 questions · 3 marks each · 15 marks

Q46. On one night the Moon looks like a thin crescent. Which statement best explains this shape?

(A) we see only part of its sunlit half
(B) clouds cut the Moon into that shape
(C) Earth's shadow covers it every night
(D) the Moon produces less light then

Q47. A dolphin swims like a fish, but it is grouped with mammals. Which observation best supports this grouping?

(A) It has fins and a smooth body
(B) It lives in water all its life
(C) It gives birth and feeds milk
(D) It moves by pushing its tail

Q48. Meena touches a hot steel spoon and pulls her hand back before she thinks. Which statement explains this?

(A) Bones protected the hand first
(B) Brain planned a slow action
(C) Nerves carried a reflex message
(D) Blood carried heat away first

Q49. Rohan's lunch is only rice and potato most days. Which addition best gives more body-building food and protective food?

(A) Dal and green vegetables
(B) Butter and plain bread
(C) Sugar and sweet drink
(D) More rice and fried chips

Q50. A metal spoon left in hot soup soon feels hot at the handle. Why?

(A) Soup climbs up the spoon
(B) Metal always stays hot
(C) The handle makes its own heat
(D) Metal conducts heat along the spoon

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