



Delhi Public School, Gandhinagar
OLYMPIAD SAMPLE PAPER

Class IV

SCIENCE

Date:

Time: 2 hours

M. Marks:100

Name: _____ **Sec:** _____ **Roll No.:** _____

Instructions:

1. *All questions are compulsory.*
2. *Choose the most appropriate answer.*
3. *There is only one correct answer.*
4. *Use reasoning and scientific understanding to answer.*
5. *No negative marking.*

SECTION A: LOGICAL SCIENCE & SCIENTIFIC REASONING (Q1–20)

1. Which object will cast the longest shadow?
A) At noon B) In evening C) At midnight D) Indoors
2. Which is the odd one out?
A) Cow B) Goat C) Tiger D) Rose
3. Which comes next?
1, 4, 9, 16, 25, ____
A) 30 B) 35 C) 36 D) 49
4. Which animal can live both on land and in water?
A) Frog B) Eagle C) Camel D) Cow
5. Which material is transparent?
A) Wood B) Glass C) Cardboard D) Stone
6. Which does not need sunlight to grow?
A) Mushroom B) Rose C) Grass D) Mango
7. Which body part helps us smell?
A) Tongue B) Nose C) Ear D) Skin
8. Which is a source of light?
A) Moon B) Mirror C) Sun D) Water
9. Which object is attracted by a magnet?
A) Plastic spoon B) Iron nail C) Rubber ball D) Paper
10. Which occupies the most space?
A) Solid B) Liquid C) Gas D) None
11. Which is not a living thing?
A) Plant B) Fish C) Rock D) Bird
12. Which object will float?
A) Stone B) Coin C) Wooden block D) Iron rod
13. Which part of a plant absorbs water?
A) Leaf B) Flower C) Root D) Fruit
14. Which is a natural source of water?
A) Tap B) Tanker C) River D) Bottle
15. Which season is usually the hottest?

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- A) Winter B) Summer C) Spring D) Autumn
16. Which gas do humans need for breathing?
A) Carbon dioxide B) Nitrogen C) Oxygen D) Hydrogen
17. Which animal lays eggs?
A) Cow B) Dog C) Hen D) Cat
18. Which machine helps lift a bucket from a well?
A) Lever B) Pulley C) Wedge D) Screw
19. Which force pulls objects towards Earth?
A) Magnetism B) Gravity C) Friction D) Push
20. Which adaptation helps a duck swim?
A) Gills B) Fur C) Webbed feet D) Horns

SECTION B: ADVANCED SCIENCE MCQs (Q21–60)

21. Green plants prepare food by:
A) Respiration B) Photosynthesis C) Germination D) Digestion
22. Which vitamin is obtained from sunlight?
A) A B) B C) C D) D
23. Human beings have ____ sense organs.
A) 3 B) 4 C) 5 D) 6
24. The largest organ in our body is:
A) Heart B) Skin C) Brain D) Lung
25. Which animal is a mammal?
A) Lizard B) Crocodile C) Whale D) Frog
26. Which part of the tooth helps in cutting food?
A) Molar B) Premolar C) Canine D) Incisor
27. Which is a producer?
A) Lion B) Grass C) Mushroom D) Deer
28. Energy stored in food is:
A) Sound B) Light C) Chemical D) Heat
29. Which material is a conductor of electricity?
A) Plastic B) Rubber C) Copper D) Wood
30. Which planet is known as the Red Planet?
A) Earth B) Venus C) Mars D) Mercury
31. Which process changes water into vapour?
A) Condensation B) Freezing C) Evaporation D) Melting
32. Which is an invertebrate?
A) Fish B) Snake C) Earthworm D) Frog
33. Which part carries water in plants?
A) Stem B) Flower C) Fruit D) Seed
34. Which is a renewable source of energy?
A) Coal B) Petroleum C) Solar D) Diesel
35. Which animal has a hump?
A) Camel B) Horse C) Zebra D) Deer
36. Which gas is most abundant in air?
A) Oxygen B) Nitrogen C) Hydrogen D) Carbon dioxide
37. Which body system transports blood?
A) Skeletal B) Digestive C) Circulatory D) Nervous
38. Which object has maximum friction?
A) Ice B) Glass C) Sandpaper D) Marble
39. Which is a habitat?
A) Desert B) Tooth C) Stem D) Root
40. Which celestial body gives us heat and light?
A) Moon B) Mars C) Sun D) Venus
41-60. Olympiad-Level Advanced MCQs
41. Bacteria are: A) Plants B) Microorganisms C) Animals D) Fungi

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42. The Moon revolves around: A) Sun B) Earth C) Mars D) Venus
43. Sound travels fastest through: A) Air B) Water C) Steel D) Vacuum
44. Which can dissolve in water? A) Sand B) Stone C) Salt D) Chalk
45. Which animal breathes through gills? A) Fish B) Cat C) Cow D) Dog
46. Which organ filters blood? A) Liver B) Kidney C) Heart D) Lung
47. Which soil is best for crops? A) Rocky B) Sandy C) Loamy D) Gravel
48. Which object reflects light? A) Mirror B) Wood C) Cloth D) Paper
49. Which is a nocturnal animal? A) Owl B) Cow C) Goat D) Horse
50. Which is a biodegradable waste? A) Plastic B) Glass C) Banana peel D) Metal
51. Which planet has rings? A) Earth B) Mars C) Saturn D) Mercury
52. Which is an herbivore? A) Tiger B) Lion C) Deer D) Eagle
53. Which organ controls the body? A) Heart B) Brain C) Lung D) Kidney
54. Which process forms clouds? A) Condensation B) Evaporation C) Freezing D) Melting
55. Which is a simple machine? A) Computer B) Pulley C) Television D) Mobile
56. Which animal stores food in cheek pouches? A) Hamster B) Lion C) Camel D) Deer
57. Which helps seeds disperse? A) Wind B) Water C) Animals D) All
58. Which state has fixed shape? A) Liquid B) Gas C) Solid D) Plasma
59. Which object produces sound? A) Vibrating ruler B) Stone C) Paper D) Water
60. Which adaptation helps fish swim? A) Wings B) Fins C) Fur D) Claws

SECTION C: ASSERTION–REASON (Q61–75)

Choose:

- A) Both A and R are true and R explains A
- B) Both A and R are true but R does not explain A
- C) A is true, R is false
- D) A is false, R is true

61. A: Plants release oxygen.

R: Photosynthesis occurs in leaves.

62. A: Earthworms improve soil fertility.

R: They make tunnels in soil.

63. A: Moon shines at night.

R: Moon produces its own light.

64. A: We perspire during exercise.

R: Sweating cools the body.

65. A: Ducks swim easily.

R: Ducks have webbed feet.

66. A: Sound cannot travel in vacuum.

R: Sound requires a medium.

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67. **A: Green plants are producers.**
R: They make their own food.
68. **A: Iron sinks in water.**
R: Iron is denser than water.
69. **A: Polar bears survive in cold regions.**
R: Thick fur retains heat.
70. **A: Clouds are made of water droplets.**
R: Condensation forms clouds.
71. **A: Solar energy is renewable.**
R: Sunlight is continuously available.
72. **A: Birds have hollow bones.**
R: It helps them fly.
73. **A: Roots absorb water.**
R: Roots remain above the soil.
74. **A: Mercury is the hottest planet.**
R: It is nearest to the Sun.
75. **A: Magnets attract iron.**
R: Iron is a magnetic material.

SECTION D: CASE-BASED QUESTIONS (Q76–90)

Case Study 1

Aarav observed that clothes dry faster on a windy day.

76. **Which process causes drying?**
A) Condensation B) Evaporation C) Freezing D) Melting
77. **Wind increases:**
A) Humidity B) Condensation C) Evaporation rate D) Freezing
78. **Clothes dry slowest on:**
A) Sunny day B) Windy day C) Humid day D) Dry day
79. **Water changes from:**
A) Gas to liquid B) Liquid to gas
C) Solid to liquid D) Gas to solid
80. **Which factor affects evaporation?**
A) Temperature B) Wind C) Surface area D) All

Case Study 2

A farmer notices many earthworms in his field.

81. **Earthworms help by:**
A) Destroying roots B) Loosening soil
C) Eating crops D) Drying soil

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82. Soil becomes:
A) Less fertile B) More fertile
C) Salty D) Rocky
83. Earthworms are:
A) Mammals B) Reptiles
C) Invertebrates D) Birds
84. Soil contains:
A) Air B) Water C) Minerals D) All
85. Which plant part absorbs water?
A) Flower B) Fruit C) Root D) Leaf

Case Study 3

A solar cooker is placed in sunlight.

86. Main energy source:
A) Wind B) Sun C) Water D) Coal
87. Solar energy is:
A) Renewable B) Exhaustible
C) Polluting D) Non-renewable
88. Mirror in cooker:
A) Reflects light B) Absorbs light
C) Blocks heat D) Produces heat
89. Best day for cooking:
A) Rainy B) Cloudy C) Sunny D) Foggy
90. Solar energy helps in:
A) Pollution B) Smog
C) Clean energy production D) Acid rain

SECTION E: ACHIEVERS SECTION (Q91–100)

91. Which food chain is correct?
A) Grass→Rabbit→Fox
B) Rabbit→Grass→Fox
C) Fox→Grass→Rabbit
D) Grass→Fox→Rabbit
92. A cube is painted and cut into 27 cubes. Cubes with exactly two painted faces?
A) 8 B) 12 C) 6 D) 24
93. Best adaptation for desert survival:
A) Large leaves B) Water storage tissues
C) Thin skin D) Gills
94. If Earth stopped rotating suddenly:
A) Normal day-night cycle
B) One side faces Sun continuously

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- C) Moon disappears
- D) Seasons stop

95. Which statement is correct?

- A) All microorganisms are harmful
- B) All cause diseases
- C) Some are useful and some harmful
- D) None can be seen

96. A magnet is broken into two pieces.

- A) North pole only
- B) South pole only
- C) Two smaller magnets form
- D) Magnetism disappears

97. Highest trophic level organism:

- A) Grass B) Grasshopper C) Deer D) Tiger

98. A lunar eclipse occurs when:

- A) Earth comes between Sun and Moon
- B) Moon comes between Sun and Earth
- C) Sun comes between Earth and Moon
- D) None

99. Weight of astronaut on Moon is:

- A) Same B) More C) Less D) Zero

100. Which statement is scientifically correct?

- A) Heavier objects always fall faster
- B) Plants take food from soil
- C) Earth is center of Solar System
- D) Green plants manufacture food using sunlight

ANSWER KEY

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	21	B	41	B	61	A	81	B
2	D	22	D	42	B	62	A	82	B
3	C	23	C	43	C	63	D	83	C
4	A	24	B	44	C	64	A	84	D
5	B	25	C	45	A	65	A	85	C
6	A	26	D	46	B	66	A	86	B
7	B	27	B	47	C	67	A	87	A
8	C	28	C	48	A	68	A	88	A
9	B	29	C	49	A	69	A	89	C
10	C	30	C	50	C	70	A	90	C
11	C	31	C	51	C	71	A	91	A
12	C	32	C	52	C	72	A	92	B
13	C	33	A	53	B	73	C	93	B
14	C	34	C	54	A	74	D	94	B
15	B	35	A	55	B	75	A	95	C
16	C	36	B	56	A	76	B	96	C
17	C	37	C	57	D	77	C	97	D
18	B	38	C	58	C	78	C	98	A
19	B	39	A	59	A	79	B	99	C
20	C	40	C	60	B	80	D	100	D

