

DPSG 5(SCIENCE OLYMPIAD PAPER)



Delhi Public School, Gandhinagar
OLYMPIAD SAMPLE PAPER

Class V

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.*

1. Which does NOT belong?

A) Cow B) Goat C) Tiger D) Buffalo

2. Plant : Root :: Human : ?

A) Hair B) Leg C) Foot D) Bone

3. Which object floats on water?

A) Iron nail B) Stone C) Cork D) Coin

4. Which part of a plant absorbs water?

A) Leaf B) Stem C) Root D) Flower

5. Which is a source of energy?

A) Air B) Sun C) Soil D) Rock

6. Which animal lays eggs?

A) Cow B) Dog C) Hen D) Cat

7. Which state of matter has a fixed shape?

A) Gas B) Liquid C) Solid D) Vapour

8. Which organ helps us breathe?

A) Heart B) Lungs C) Brain D) Kidney

9. Which is a natural source of light?

A) Bulb B) Candle C) Sun D) Torch

10. Which is NOT a living thing?

A) Tree B) Bird C) River D) Human

11. Which planet is known as the Red Planet?

A) Earth B) Mars C) Venus D) Jupiter

12. Which material is attracted by a magnet?

A) Plastic B) Wood C) Iron D) Rubber

13. Which of these is transparent?

A) Glass B) Cardboard C) Wood D) Cloth

14. What is the boiling point of water?

DPSG 5(SCIENCE OLYMPIAD PAPER)

- A) 50°C B) 75°C C) 100°C D) 150°C
15. Which bird cannot fly?
A) Sparrow B) Eagle C) Penguin D) Parrot
16. Which sense organ helps us taste?
A) Nose B) Tongue C) Ear D) Skin
17. Which gas is essential for breathing?
A) Carbon dioxide B) Nitrogen C) Oxygen D) Helium
18. Which of the following is a mammal?
A) Frog B) Lizard C) Dolphin D) Fish
19. Which process changes water into vapour?
A) Condensation B) Freezing C) Evaporation D) Melting
20. Which object gives off its own light?
A) Moon B) Mirror C) Sun D) Water
21. Which is a renewable resource?
A) Coal B) Petroleum C) Sunlight D) Natural gas
22. Which animal has a backbone?
A) Earthworm B) Snail C) Fish D) Spider
23. Which vitamin is obtained from sunlight?
A) Vitamin A B) Vitamin B C) Vitamin C D) Vitamin D
24. Which machine is a simple machine?
A) Wheel and axle B) Computer C) Television D) Printer
25. Which is the largest organ of the human body?
A) Heart B) Liver C) Skin D) Brain

SECTION A: APPLICATION-BASED SCIENCE (Q26–Q60)

26. Wet clothes dry faster on a windy day because of:
A) Melting B) Condensation C) Evaporation D) Freezing
27. Which adaptation helps a camel survive in deserts?
A) Gills B) Hump C) Webbed feet D) Wings
28. Which food is rich in proteins?
A) Rice B) Dal C) Sugar D) Butter
29. Which force pulls objects towards Earth?
A) Friction B) Gravity C) Magnetic D) Muscular
30. Which crop grows well in standing water?
A) Wheat B) Rice C) Gram D) Mustard
31. Which body part pumps blood?
A) Brain B) Kidney C) Heart D) Lungs
32. Which disease is caused by mosquitoes?
A) Malaria B) Tuberculosis C) Polio D) Cholera
33. Which planet supports life?
A) Mars B) Jupiter C) Earth D) Saturn
34. Which object is a conductor?
A) Plastic spoon B) Wooden stick C) Iron rod D) Rubber band
35. Which habitat is suitable for a polar bear?
A) Desert B) Grassland C) Polar region D) Ocean
36. Which process forms clouds?

DPSG 5(SCIENCE OLYMPIAD PAPER)

A) Melting B) Condensation C) Freezing D) Boiling

37. Which is a biodegradable waste?

A) Plastic bag B) Glass bottle C) Banana peel D) Metal can

38. Which planet is closest to the Sun?

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

39. Which organ filters blood?

A) Kidney B) Lung C) Stomach D) Eye

40. Which animal breathes through gills?

A) Whale B) Fish C) Frog (adult) D) Snake

41. Which gas do plants take in during photosynthesis?

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

42. Which type of teeth cut food?

A) Molars B) Premolars C) Incisors D) Canines

43. Which is a man-made fibre?

A) Cotton B) Wool C) Silk D) Nylon

44. Which material is waterproof?

A) Paper B) Cotton C) Plastic D) Cloth

45. Which is an example of friction?

A) Falling apple B) Walking on road C) Magnet attracting iron D) Light from bulb

46. Which vitamin prevents scurvy?

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

47. Which blood vessel carries blood from heart to body?

A) Vein B) Artery C) Capillary D) Nerve

48. Which is a nocturnal animal?

A) Cow B) Deer C) Owl D) Horse

49. Which instrument measures temperature?

A) Barometer B) Thermometer C) Speedometer D) Hygrometer

50. Which object reflects light best?

A) Mirror B) Cloth C) Wood D) Paper

51. Which layer protects Earth from harmful UV rays?

A) Troposphere B) Ozone layer C) Lithosphere D) Mantle

52. Which disease is caused by lack of iodine?

A) Rickets B) Scurvy C) Goitre D) Beriberi

53. Which simple machine is used to draw water from a well?

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

54. Which animal undergoes metamorphosis?

A) Cat B) Dog C) Frog D) Cow

55. Which gas extinguishes fire?

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

56. Which part of the flower becomes fruit?

A) Petal B) Ovary C) Sepal D) Stamen

57. Which energy source causes least pollution?

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

58. Which is an omnivore?

A) Lion B) Deer C) Human D) Cow

59. Which object works using electricity?

DPSG 5(SCIENCE OLYMPIAD PAPER)

A) Bicycle B) Fan C) Hammer D) Bat

60. Which scientist discovered gravity?

A) Edison B) Newton C) Einstein D) Raman

SECTION B: ASSERTION–REASON (Q61–Q75)

Choose:

A) Both A and R are true and R explains A

B) Both true but R does not explain A

C) A true, R false

D) A false, R true

61. A: Plants make food. R: Plants contain chlorophyll.

62. A: Iron is attracted by magnets. R: Iron is a magnetic material.

63. A: The Moon is a star. R: The Moon reflects sunlight.

64. A: Water evaporates faster in sunlight. R: Heat increases evaporation.

65. A: Fish breathe through gills. R: Gills absorb oxygen from water.

66. A: Sound needs a medium to travel. R: Sound cannot travel in vacuum.

67. A: Desert plants have fewer leaves. R: It reduces water loss.

68. A: The Earth rotates on its axis. R: Rotation causes day and night.

69. A: Vaccination helps prevent diseases. R: Vaccines increase immunity.

70. A: Metals conduct electricity. R: Metals have free electrons.

71. A: Earthworms improve soil fertility. R: They loosen soil.

72. A: Clouds are made of water droplets. R: Condensation forms droplets.

73. A: Plastic is biodegradable. R: Plastic decomposes naturally quickly.

74. A: Green plants are producers. R: They prepare their own food.

75. A: Friction opposes motion. R: Friction acts opposite to movement.

SECTION C: CASE-BASED QUESTIONS (Q76–Q90)

Case 1

Riya kept a bowl of water in sunlight. After some time the water level decreased.

76. What process occurred?

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

77. Which factor increased the process?

A) Heat B) Darkness C) Ice D) Shade

78. Water vapour changes into droplets by:

A) Boiling B) Condensation C) Melting D) Freezing

Case 2

A farmer grows crops using irrigation.

79. Why is irrigation needed?

A) Remove sunlight B) Supply water C) Add insects D) Reduce soil

80. Which crop needs plenty of water?

A) Rice B) Gram C) Mustard D) Pea

81. Which resource should be conserved?

A) Water B) Sand C) Dust D) Smoke

Case 3

A child touched a hot utensil accidentally.

82. Which sense organ detected heat?

A) Tongue B) Skin C) Ear D) Nose

DPSG 5(SCIENCE OLYMPIAD PAPER)

83. Heat moved from utensil to hand by:

A) Conduction B) Reflection C) Refraction D) Radiation

84. Which material is a poor conductor?

A) Iron B) Aluminium C) Wood D) Copper

Case 4

A group of students planted saplings.

85. Plants help by producing:

A) Carbon dioxide B) Oxygen C) Smoke D) Dust

86. Which process occurs in green leaves?

A) Respiration only B) Photosynthesis C) Digestion D) Excretion

87. Which gas is absorbed by plants?

A) Oxygen B) Carbon dioxide C) Hydrogen D) Helium

Case 5

A magnet was brought near different objects.

88. Which object will be attracted?

A) Iron nail B) Rubber C) Plastic D) Paper

89. Magnets have how many poles?

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

90. Like poles:

A) Attract B) Repel C) Join D) Stick permanently

SECTION D: ACHIEVERS SECTION (Q91–Q100)

91. A plant is kept in a dark room for many days. What happens?

A) Makes more food

B) Stops photosynthesis gradually

C) Produces extra oxygen

D) Grows faster

92. A beaker contains ice and water together. Temperature will be:

A) 0°C B) 50°C C) 100°C D) –10°C

93. Which food chain is correct?

A) Grass → Deer → Tiger

B) Tiger → Deer → Grass

C) Deer → Grass → Tiger

D) Grass → Tiger → Deer

94. Which object has maximum friction?

A) Ice surface

B) Wet tile

C) Rough road

D) Oiled floor

95. Which adaptation helps fish swim efficiently?

A) Wings

B) Streamlined body

C) Fur

D) Hump

96. If Earth stopped rotating, what would not occur normally?

A) Seasons

B) Day and Night cycle

DPSG 5(SCIENCE OLYMPIAD PAPER)

C) Rainfall

D) Photosynthesis

97. Which statement is correct?

A) All animals lay eggs

B) All mammals give birth to young ones

C) All birds fly

D) All fish live in sea

98. A seed needs all EXCEPT:

A) Air

B) Water

C) Suitable temperature

D) Bright sunlight

99. Which organism is both producer and living thing?

A) Grass

B) Mushroom

C) Lion

D) Human

100. Which combination contains only renewable resources?

A) Coal, Petroleum

B) Solar, Wind

C) Natural Gas, Coal

D) Petroleum, Wind

DPSG 5(SCIENCE OLYMPIAD PAPER)**Answer Key**

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