

## Science and Technology Marathon 2024-2025

### Class 6

1. What are objects that can emit their own light called? ( luminous objects)
2. Who proved that lightning was an electric phenomenon with his famous “kite experiment”? (Benjamin Franklin)
3. Which planet is also called water planet? (Earth)
4. Which gas layer protects us from the harmful ultraviolet rays of the sun? (ozone layer)
5. What do 3Rs in a practice of managing non –biodegradable wastes stand for? (reduce, reuse and recycle)
6. What are objects that cannot emit their own light called? ( non- luminous objects)
7. What is the process of release of water vapour into the air by plants through the leaves of plants called? (Transpiration )
8. What is the percent of nitrogen in air? (78%)
9. What is composting in which earthworms act on wastes and degrade them called? ( vermicomposting)
10. What is a group of light rays moving in an organized manner called?
11. (Beam of light)
12. What is a device that is used to produce electric current called? (source of electric current)
13. What is water suitable for drinking called? (potable water)
14. What percentage of water in the earth is salt water? (About 97%)
15. What percentage of water in the earth is fresh water? (About 3%)
16. What is abnormally long period of insufficient or no rainfall called? (drought)
17. What is a structure built to hold back water in order to prevent flooding and to provide water for irrigation called? (dam)
18. What percentage of air is oxygen? (21%)
19. What is a physical act of taking in oxygen and giving out carbon dioxide called? (breathing)
20. What are the tiny holes in the bodies of cockroach and housefly through which they respire called? (spiracles)
21. What is the substance that keeps the skin of earthworm moist? (mucous)
22. Which gas is required by plants to make their own food? (carbon dioxide)
23. What are the materials that allow all the light to pass through them called? (transparent materials)
24. What are the materials that transmit some amount of light called? (translucent materials)
25. What are the materials that completely block light called? (opaque materials)
26. What is the phenomenon of left-right reversal by the mirror called? (lateral inversion)
27. What is a combination of two or more cells called? (battery)
28. Which non-metal is a good conductor of electricity? (carbon in the form of graphite)
29. What percentage of total human body weight is water? (About 70%)
30. Define warm blooded with one sentence: (which possess constant body temperature)
31. Give two examples of cold blooded animals. (insects, reptiles)
32. Name two gases which are important for the survival of living organisms. (Oxygen, carbon dioxide)
33. Name two seeds which can disperse with the help of wind. (hiptage, dandelion)
34. Give reasons : less plants grow on the water surface: (light penetration decreases as the depth increases)
35. Why the plants are called as producers: (they prepare food)
36. What makes the leaves green? (chlorophyll)
37. What is photosynthesis? (food preparing process in plants)
38. Name two nutrients which plants absorb? (phosphorus, potassium)
39. name the abiotic components: (light, air, water, soil, temperature)
40. What is the role of the decomposers in the environment? (decomposers decay dead animals)
41. What are the uses of roots? (fixation, conduction, absorption)
42. Which roots are called true roots? (taproots)
43. Why do desert plants have longer roots? (they penetrate the soil)
44. Give two examples for storage roots: (carrot, turnip)
45. Give two examples for prop roots are supporting roots: (bamboo, banyan and sugarcane)
46. Give two examples for root multiplication: (dahlia, asparagus)
47. Name a stem which manufactures food: (cactus, aloevera)
48. Name two plants which posses tendrils: (passion flower, grapes)
49. Name two plants where we use stem cuttings for multiplication: ( rose, jasmine, hibiscus)
50. What is transpiration? (the loss of water through stomata)
51. name the part of the flower which develops into fruit: (ovary)
52. What is venation? (the arrangement of veins in a leaf)
53. Name the female part of a flower. (carpel)
54. Name the part which contains food for the baby plant: (cotyledon)
55. What is the function of embryo? (it grows into a baby plant)
56. What is predator? (an animal that kills and eats other animals)
57. What is the name for back bone? (vertebra)
58. What are the two groups of animals? (vertebrates and invertebrates)
59. How do snails move? (they use their foot muscular organ)
60. What is the function of streamlined body? (it offers least resistance)

61. Say any two features of birds which help to fly? (hollow bones, powerful chest muscles)
62. What is the function of bone marrow? (it produces blood cells)
63. Name the mineral which is essential for strong, healthy bones: (calcium)
64. What are joints? (joints are places where two bones meet)
65. How do the muscles help in the movement? (by contracting and relaxing)
66. What is cartilage? (tough elastic tissues found at the end of the bones)
67. What is the use of x-rays? (to diagnose fractures)
68. What is the temperature of tropical forests? ( $20^{\circ}\text{C}$  to  $34^{\circ}\text{C}$ )
69. What kinds of trees are found in temperate forests? (deciduous)
70. Where do we find boreal forests? (Canada, Russia, Mongolia, China)
71. Name the organisms which are found in desert? (cactus, camel, rattle snake, Gila monsters and kangaroo rats)
72. What is the lowest temperature recorded in Antarctic region? ( $-88^{\circ}\text{C}$ )
73. What do you mean by coastal habitat? (it is the region where the land meets the sea)
74. What are estuaries? (it is the region where salt water mixes with fresh water)
75. What is hibernation? (reduced activities of animals during winter months)
76. How much water can a camel drink? (120 lts of water in ten minutes)
77. Name an animal which doesn't drink water? (the kangaroo rat)
78. How does a cactus prevent water loss? (it has thick, waxy coating to prevent)
79. How does an octopus move in water? (it takes streamlined shape)
80. How does polar bear walk in snow? (with the help of a padded feet)
81. Why do camels excrete wastes in the form of hard pellets? (due to less water)
82. Name different body parts which are used to measure length? (hand span, cubit and fathom)
83. What is the abbreviation of SI units? ("System International units" in French)
84. What is motion? (when an object is moving it is said to be in motion)
85. How can we measure the length of a curved line? (with the help of a string)
86. How Many millimeters makes one centimeter? (10 millimeters)
87. What is the process in which sunlight, air, water and chlorophyll are used by the plants? (Photosynthesis)
88. Which plant can be eaten and is also used to make sugar? (Sugarcane)
89. Which food is known as the complete food? (milk)
90. What are the pores in the leaves of the plants called through which exchange of gases takes place? (Stomata)
91. What does lack of protein cause? (Kwashiorkor)
92. Which nutrient forms most of our body weight? (Protein)
93. Name a unicellular and a multicellular animal. (Amoeba, Human)
94. What type of stem is ginger? (Rhizome)
95. Which crop require plenty of water and irrigation? (Rice)
96. How many varieties of apples are there? (over 7000)
97. What is the process, in which the seeds are soaked, water is drained and leaved till they germinate? (Sprouting)
98. What is the most commonly eaten bird's egg in the world? (Chicken egg)
99. How much milk is produced by an average cow in a day? (90 glasses)
100. What is the process called which involves heating milk and other beverages to kill the harmful microorganisms present in them? (Pasteurization)
101. Which instrument is used to see the microorganisms? (Microscope)
102. Which is the world's largest herbivore? (The African elephant)
103. What do we call a pair of broad sharp edged front teeth in each jaw of squirrels? (Incisors)
104. Name a carnivore which injects poison into itsprey, that makes the prey paralyzed and makes the prey's flesh a liquid, which it sucks up? (Spider)
105. Name the animal which sometimes steals honey from beehives. (Bears)
106. What types of organisms in nature feed on dead and decaying plants and animals? (Decomposers)
107. Which is the plant whose flower and fruit both are eaten? (Banana)
108. What are the substances needed by our body for healthy growth and functioning? (Nutrients)
109. Which chemical is used in the lab to test the presence of sugar in a foodstuff? (Benedict's solution)
110. Which chemical is used in the lab to test the presence of starch in a foodstuff? (Dilute Iodine solution)
111. How much percentage of our body weight is water? (70%)
112. Which type of vitamins are stored in the fat tissues of our body and are only used when the body needs them? (Fat soluble vitamins)
113. What does the excess loss of water from the body cause? (Dehydration)
114. What can be given to the patient to recover from dehydration? [Oral Rehydrating solution (ORS)]
115. Which vitamin helps in blood clotting? (Vitamin K)
116. Which process is used to remove stone from rice? (Handpicking)
117. If the components are of different sizes, by which process can they be separated? (Sieving)
118. What do we call the heavier particle layer at the bottom in sedimentation? (Sediments)
119. Which process can be applied to separate grains from husk? (Threshing)

120. When did people started using animal skins for Clothing? (About 30,000 years ago)
121. What is the process of making fabrics from yarn called using machines called looms? (Weaving)
122. What is the process of making yarn from fibres called? (Spinning)
123. Which is the fibre which is obtained from the outer covering of the fruit of the coconut palm? (Coir)
124. What is silk cotton tree also known as? (Kapok)
125. In which type of soil does cotton grow best? (Black soil)
126. What is the process of packing or sorting similar things together called? (grouping)
127. What kind of materials do not allow light to pass through them? (opaque materials)
128. Which state of matter do not have a definite shape or volume? (Gaseous state)
129. What do we call liquids which are insoluble in water? (Immiscible in water)
130. Which gas is dissolved in fizzy drinks? (Carbon dioxide gas)
131. Which liquid contracts on cooling until it reaches the temperature of 4°C. (Water)
132. What are the changes that can be reversed called? (Reversible changes)
133. Is ripening of food an example of reversible change? (No)
134. What type of change is the growth of a puppy into a dog? (Irreversible)
135. Which instrument is used to measure the temperature of our body? (Thermometer)
136. Are metals good conductors of electricity? (Yes)
137. How many components are present in foods that fulfill the different of the body? (Six)
138. Name the diseases which are caused in the lack of Vitamin C and D. (Scurvy and Rickets)
139. Which vitamin is easily destroyed during cooking? (Vitamin C)
140. Under which age of infants and children is Marasmus more common? (under 5 years)

## **TECHNOLOGY**

1. Name the first calculating device. (Abacus)
2. Who made a calculating device named Napier's bone? (Sir John Napier)
3. What are three basic elements of the modern computer?( Input, Process, Output)
4. Give the full-form of AI. Artificial Intelligence
5. Third generation computers used \_\_\_\_\_. Integrated Circuits(IC)
6. Which key is used to check the spellings in MS Word? F7
7. What does a string value contains? Letters and symbols
8. These symbols are used to perform mathematical operations\_\_\_\_\_. Operators
9. When was World Wide Web invented? 1989
10. Who developed World Wide Web? Tim Berners-Lee
11. Give the full-form of DNS. Domain Name System
12. .Com stands for\_\_\_\_\_ Commercial Organization
13. Facebook is one of the most popular \_\_\_\_\_. Social networking services
14. Who found facebook? Mark Zuckerberg
15. When was facebook found? 2004
16. Who created Instagram? Kevin Systrom and Mike Krieger
17. Who created Twitter? Jack Dorsey
18. When was Twitter created? March 2006
19. Which company operates Snapchat? Yahoo
20. What is the shortcut key to Duplicate a slide? CTRL +D
21. Name the spreadsheet software\_\_\_\_\_. Excel
22. Name the first spreadsheet software\_\_\_\_\_ Visicalc
23. Which mouse action helps to change the name of worksheet? Double-click
24. How to select a row in Excel? SHIFT + Spacebar
25. What is the default column width? 8.43 points