**GRADE 6 SCIENCE PAPER 1**

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| --- | --- |
| **TIME:** |  **HRS** |

|  |  |
| --- | --- |
| **TOTAL MARKS:** | **40** |

|  |  |
| --- | --- |
| **PUPIL’S NAME:** |  |

**PUPIL’S INSTRUCTIONS:**

1. **Answer all questions**
2. **Circle the correct answer**
3. **Write neatly and legibly**
4. **Which of the following is not true about mammals?**
5. Mammals have a constant body temperature
6. Mammals have a protective outer skeleton
7. Mammals have skulls and backbones
8. Mammals have hairy bodies to keep warm
9. **In nature where is evaporation useful?**
10. In the provision of vapour when we breath
11. In the formation of dew and frost from cooked vapour
12. In the removal of toxic wastes from rivers
13. In the drying clothes and formation of clouds
14. **The earth’s rotation causes…….**
15. Seasons of the year
16. Phases of the moon
17. Day and night
18. Eclipse of the earth
19. **Which of this is a characteristics of raptiles**
20. Bodies are covered with fur
21. Breath by means of gills
22. Skin covered with scales
23. Well-developed brain and heart
24. **Which of the following technology gadgets help us see far away from where we are?**
25. Telescope
26. Microscope
27. Cellphone
28. Periscope
29. **The process whereby plants make their own food using sunlight, carbon dioxide and chlorophyll is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
30. Fertilization
31. Transpiration
32. Photosynthesis
33. Digestion
34. **Which statement is true about magnets? Magnet…..**
35. Are weaker at the poles
36. Attract mainly at the poles
37. Have the same strength
38. Attract all metallic objects
39. **Which of the following is an example of magnetic object?**
40. Nail, iron and pins
41. Paper, plastic and spoon
42. Battery, steelwool and pencil
43. Rubber, wool and paper clips
44. **Which of the following is an example of an acid?**
45. Water
46. Baking soda
47. Vinegar
48. Eno
49. **What name is given to the sugar that dissolve in water?**
50. Mixture
51. Solute
52. Solvent
53. Solution
54. **The diagram shows a seeding that is growing towards one direction.**

**What is the seeding bending to one direction?**

1. It is searching for water and mineral salts
2. It is responding to touch stimulus
3. It is growing towards the direction of the sunlight
4. It is growing towards the direction of the soil
5. **Which of this substances Is alkaline?**
6. Water
7. Lemon juice
8. Toothpaste
9. Sour milk
10. **Which of the following is not a condition for seed germination?**
11. Warmth
12. Soil
13. Air
14. Moisture
15. **Which eclipse is shown by the diagram below?**

Sun

Earth

Moon

Moon’s shadow

1. Solar eclipse
2. Lunar eclipse
3. Waxing crescent
4. Warning crescent
5. **Nathi wants to separate a mixture of tea leaves in water, which of the following is best to use?**
6. Sorting
7. Decanting
8. Evaporation
9. Filtration
10. **The diagram shows a box of spice**

7 cm

3 cm

4 cm

**Calculate the volume of the box**

1. 84cm
2. 32cm
3. 14cm
4. 28cm
5. **What is the definition of area?**
6. Measure of hot or cold a substance is
7. Amount of matter in an object
8. A region in a given boundary
9. Amount of space occupied by an object
10. The diagram shows an experiment carried out by a science class in a hot day, use the diagram to answer question 18 and 19

 **What was observed after an hour in the plastic bag?**

1. Oxygen
2. Water droplets
3. Mineral salts
4. Carbohydrates
5. **The process that is being investigated in the experiment is?**
6. Transpiration
7. Photosynthesis
8. Evaporation
9. Condensation
10. **Which gas is used by plant to make their own food?**
11. Hydrogen
12. Oxygen
13. Nitrogen
14. Carbon dioxide

The diagram shows the digestive system, use the diagram to answer question 21 and 22

1. **What is de name of the part labelled W?**
2. Rectum
3. Mouth
4. Stomach
5. Gullet
6. **Which part is responsible for the absorbtion of digested food into the blood stream?**
7. W
8. X
9. Y
10. Z

The diagram shows a magnet, use it to answer question 23 and 24

 **F**

1. **What is the name of the magnet?**
2. Bar
3. Compass
4. Horseshoe
5. Cylinder
6. **What is the name of the part labelled F on the magnet**
7. Pole
8. North
9. Field
10. East
11. The diagram shows an instrument used in the laboratory

**What does the instrument measure?**

1. Volume
2. Mass
3. Weight
4. Length
5. Which circuit diagram A,B,C or D would give light in the bulb?

Musa covers a lighted candle with a glass jar as shown below, use the diagram to answer question 27 and 28

1. **Which of the statement is correct about what he would observe after a few minutes?**
2. The light would become dimer for some time
3. The light would be extinguished after a while
4. The candle light would come out immediately
5. The light would become yellow and brighter
6. **Which gas would be in short supply immediately the candle os covered by the glass?**
7. Carbon monoxide
8. Carbon dioxide
9. Nitrogen
10. Oxygen
11. **Nomphumelelo noticed lines of beautiful colours on the sky after it had rained, what do you think she saw?**
12. Sunrays
13. Clouds
14. Rainbow
15. Lightening
16. **Which statement is a correct conclusion about the effect of manure to plant growth?**
17. Enriches the soil with nutrients and plants grow thin
18. Enriches the soil with nutrients and plants grow short
19. Reduce nutrients from the soil and plants grow well
20. Enriches the soil with nutrients and plants grow well
21. **What keeps blood moving through the body in human beings?**
22. Heart
23. Muscles
24. Pulse
25. Blood vessels
26. **Living things are made up of millions cells yet they start of as single cell, how do they end up having so many cells? Its by cell;**
27. Fusion
28. Division
29. Nucleus
30. Cutting
31. **The part of a plant that absorbs water and mineral salts from the soil is………..**
32. Root cap
33. Root hair
34. Large roots
35. Root ends
36. **Plants respond to stimulus in their environment for defferent reasons except one, which one is it?**
37. In search for food
38. In need for light
39. In search for water
40. In search for danger
41. **The bottom part of an insect is called…….**
42. Head
43. Last part
44. Abdomen
45. Thorax
46. **What is in the center of the solar system?**
47. Mars
48. Moon
49. Sun
50. Earth
51. **Weather influence our lives in many ways, the statements below tell us how it influence us except one. Which one is it?**
52. The cars we drive
53. The food we eat
54. The clothes we wear
55. The way we spend our leisure time
56. **What will happen to a plant if it is put in the dark to grow?**
57. It will die immediately
58. It will be taller and greener
59. It will grow healthy and strong
60. It will lose the green colour and eventualy die
61. **When ice changes to liquid the process is?**
62. Condensation
63. Freezing
64. Melting
65. Evaporation
66. **On which weather will evaporation take place faster?**
67. On a wet and windy day
68. On a dry and windy day
69. On a partly cloudy day
70. On a cloudy day

**GRADE 6 SCIENCE PAPER 1 MARKING GUIDE**

1. B
2. D
3. C
4. C
5. A
6. C
7. B
8. A
9. C
10. D
11. C
12. C
13. B
14. A
15. D
16. A
17. C
18. B
19. A
20. D
21. D
22. C
23. C
24. A
25. B
26. D
27. B
28. D
29. C
30. D
31. A
32. B
33. B
34. D
35. C
36. C
37. A
38. D
39. C
40. B