



**Subject:** Grade 6 Natural Sciences

**Topic:** Natural Sciences: Term 1 - Mini-Exam

**Total:** 83 Marks

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1. true

2 marks

**Explanation:**

Bacteria are the most abundant micro-organisms found on earth.

Fungi are found in damp and warm places, and grow on rotting matter. An example of this is mould on strawberries.

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2. Nutrients

3 marks

**Explanation:**

The more food is processed, the less nutritious it becomes. Vitamins and nutrients need to be added to food to restore their nutrient content. These foods are called fortified foods.

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3. false

2 marks

**Explanation:**

Rivers are freshwater systems that flow through land and end **at the sea**. The temperature of river ecosystems can be warm or cold, depending on where the river is.

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4. cook | cooking

3 marks

**Explanation:**

Food that cannot be eaten raw must be cooked. Many different cooking methods have been developed over the years. Eggs, for example, can be boiled, poached, fried, scrambled and baked.

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5. photosynthesis

3 marks

**Explanation:**

During photosynthesis, a plant uses light energy from the sun, carbon dioxide from the air and water from the soil to make glucose sugar.

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6. C: root

4 marks

**Explanation:**

The root of a plant contains tiny root hairs that absorb the water from soil.



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7. true 2 marks

**Explanation:**

During photosynthesis, plants use the **light energy from the sun**, carbon dioxide from the air and water from the soil to make sugar glucose.

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8. chlorophyll | leaf 4 marks

**Explanation:**

Photosynthesis takes mainly place in the leaves of all green plants. The substance called chlorophyll gives the leaves the green colour.

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9. true 2 marks

**Explanation:**

Too much sugar is not good for you. Check the nutritional label on your cereal box to see how much sugar the cereal contains.

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10. fruit and vegetables | grain 4 marks

**Explanation:**

The daily servings of fruit and vegetables have increased and the daily servings of grain foods have decreased.

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11. Rickets | lack | sunlight 6 marks

**Explanation:**

**Vitamin D** is important for the development of strong and healthy bones. People with rickets have soft and weak bones, resulting in stunted growth.

We get most of our **Vitamin D** from the sun.

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12. true 2 marks

**Explanation:**

Vitamin B helps cells multiply - they build the cells up.

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13. C: protein 4 marks

**Explanation:**

When a child is born, the older child can no longer feed on his or her mother's breastmilk which is rich in protein. The lack of protein in the child's body causes a build-up of fluid in the blood, which makes the stomach swell.

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14. sugar | sugars 3 marks

**Explanation:**

Tooth decay is caused by bacteria (germs) that feed on the sugars in your teeth. The bacteria makes acids that makes holes in your teeth.

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15. carbohydrates | carbohydrates.

3 marks

**Explanation:**

Carbohydrates are the body's main source of energy. Sugar and starch are the two main carbohydrates that we eat.

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16. wetland | wetlands

3 marks

**Explanation:**

Wetlands prevent flooding by holding water, much like a sponge. By doing so, wetlands help keep river levels normal and filter and purify the surface water.

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17. grassland | hot in summer and cold in winter

4 marks

**Explanation:**

The description above is that of a grassland. They have enough rain for grasses to grow, but not for trees. Grassland plants are mainly grasses and small bushes. You will find many wild animals living in the grasslands.

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18. iron

3 marks

**Explanation:**

Baked beans are rich in iron. Iron help to make red blood cells, that carries oxygen around your body and gives you energy.

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19. D: Vitamins and minerals

4 marks

**Explanation:**

Vitamins and minerals work together with carbohydrates, proteins, fats and oils to help our bodies grow and develop normally.

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20. cactus | insect

4 marks

**Explanation:**

The producer is the cactus. Even though it is thorny on the outside, certain animals can eat it. Number 3 is an insect, but in this case, it is a decomposer because it feeds off the dead remains of the cactus.

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21. C: drying

4 marks

**Explanation:**

When water is removed from food, micro-organisms (bacteria and fungi) are unable to grow.

Drying food completely changes the taste and texture of the food. A dried apple is smaller and sweeter than a fresh apple.

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22. C: oxygen and glucose sugar only

4 marks

**Explanation:**

Carbon dioxide, water and sunlight is used to make food for the plants during the process of photosynthesis. Oxygen and glucose are products of photosynthesis.

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23. C: Decomposers

4 marks

**Explanation:**

Decomposers are an essential part to the life cycle. They break down plant and animal matter and return the nutrients back to the soil for new plants to grow.

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24. salt | vinegar

4 marks

**Explanation:**

The vinegar acts as a preservative. Micro-organisms (bacteria and fungi) cannot survive in vinegar. The vinegar gives the food a sour taste. Spices that are added, gives the food its salty taste.

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25. false

2 marks

**Explanation:**

Fats and oils form an important part of a balanced diet. They give us more energy than any other food type. Liquid fats made from plants and fish provide our bodies with important nutrients.

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**Total: 83 Marks**