

MODEL ENTRANCE TEST PAPER

SUBJECT: SCIENCE

Grade: 7

TOTAL MARKS: 25

I. Fill in the following:

[6 Marks]

- (i) A species is a group of very similar organism whose members can mate with one another and produce
- (ii) Properties of matter are those that can be seen or measured without changing the substance into something else.
- (iii) Heat transfer between two object that touch is called
- (iv) A star is a huge, hot, glowing ball of
- (v) Cell division begins with mitosis, the process in which the cell divides.
- (vi) A compound is a substance composed of two or more elements that are combined to form new substance.

II. Choose the best option from the following:

[5 Marks]

- (i) Water travel across a membrane during the process of
- | | |
|-------------------|-----------------------|
| (a) Mitosis | (b) Osmosis |
| (c) Cell division | (d) none of the above |
- (ii) Gases produced by the burning fossil fuels trap heat in the air, this is called
- | | |
|------------------------|------------------------|
| (a) Smog | (b) Fog |
| (c) Green house effect | (d) Acid precipitation |
- (iii) Which particle in an atom's nuclear has no charge?
- | | |
|------------|--------------|
| (a) Proton | (b) neutron |
| (c) Newton | (d) electron |
- (iv) What waste does the respiratory system remove from the body?
- | | |
|--------------------|-----------------------|
| (a) Polluted air | (b) used nitrates |
| (c) Carbon dioxide | (d) none of the above |

(v) Which color absorbs the greatest amount of light that strikes it?

- (a) Red
- (b) Black
- (c) White
- (d) Yellow

(vi) Which planet has the strongest force of gravity?

- (a) Mars
- (b) Earth
- (c) Venus
- (d) Jupiter

III. Choose the True or False statement.

[5 Marks]

1. An A.U. (Astronomical Unit) is the average distance of Earth from the sun. []
2. Excretory system provides the body with oxygen and nutrients and removes Carbon dioxide. []
3. Abiotic factors are the living parts of an ecosystem. []
4. A rock is a solid, natural material made up of one or more minerals. []

IV. Solve the following short questions:

[5 Marks]

1. What are three parts of brain?
2. Give any two examples of carnivores?
3. What is periodic table?
4. If you dropped a wood piece in a container of water, would it sink or float?
5. Why can't sound travel through empty space?

V. Label the following diagram:

[4 Marks]

