

Part One : A- Reading Interpretation

One of the fields which physics covers is the study it makes about the relationships we find between some of the physical aspects of nature. Among these, we can evoke the interdependence that links speed and time when we speak about moving objects. Any variation that affects the first produces some change in the other. For example a car moving at 60 kilometers an hour will take two hours to 120 kilometers supposing that no pause is made during the trip. However, if the car increases its speed to 120 kms an hour, we notice that only one hour is required for the same distance. The opposite is true so that any time the rapidity at which a thing gets displaced decreases we see that the amount of time taken for its movement rises while the distance covered lessens.

Another example of the interaction between the various elements of physical matter is the law of gravity. This force which keeps the diverse bodies of the universe drawn to each other depends on the length of the gap separating them. It varies, indeed, in inverse proportion to the square of their distance.

1)- Read the text and say if these statements are true or false according to the text:

- a- If a car decreases its speed to 120 kms an hour, we notice that two hours are required.
- b- A car moving 60 kms an hour, will take two hours to 120 kilometers.
- c- The force of gravity keeps the diverse bodies of the universe interact to each other.

2) - Answer the following questions according to the text:

- a- What do we find between some aspects of physical matter?
- d- b. What makes the elements of the universe form some unity?

3). In which paragraph it is mentioned that the force of gravity keep the bodies interact to each other?

4)- What or who do the underlined words refer to in the text?

its(1)=..... which(2)=.....

Text Exploration:

- 1)- Find in the text words that are closest in meaning to the following
joins. (§1)= speed. (§1)= power. (§2)=.....
- 2)-Complete the following chart.

| verb | Noun | adjective |
|----------|------------|-----------|
| To speak | | |
| | attraction | |
| | | various |

3)- Put the verbs between brackets into the correct tense:

- a- She will feel better if she (to take) an aspirin.
- b- If you (to throw) a piece of wood into water, it floats.
- c-If the world resources (to be)well-distributed, many people in the world would livebetter.
- d-Plants die if they (not get) enough water.
- e-What (happen) if he didn't discover this law ?

4)-Fill in each gap with one word from the list below:

why - true - will- study

Physics is the.....1.....of the fundamentals of everything in the universe. If you look around you and start asking questions like2... does that happen or how does that work, and if you probe into the question to get at the root causes, you3..... be in physics.You will learn of laws and theories and it is tempting to say that a law is something that has proved to be.....4.... and a theory is speculative.

5)-Classify these words according to the stressed syllable :

Psychology – ecological – physics–condition

| Stress on the 1 st | Stress on the 2 nd | Stress on the 3 rd |
|-------------------------------|-------------------------------|-------------------------------|
| | | |

PART TWO: WRITTEN EXPRESSION

Topic one:

Are you for or against Technology advance?

In few lines, explain the advantages and the disadvantages of technology in our society.

Topic two:

Suppose that you were in a dilemma, write a letter to an agony aunt; in which you seek for help. Use the following notes:

- Introduce yourself: name / age/ occupation.
- Introduce your problem or difficulties.
- Ask for advice/suggestion

Good Luck