Subject: Science

Pages: (5)

Grade: 7

The end of the first semester For the academic year 2018/2019

### Question 1

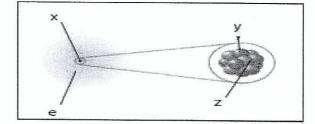
## Underline the correct answer:

45

- 1- What tool would a scientist use to view a tiny organism?

- \* computer \* test tube \* compound light microscope \* triple-beam balance
- 2 Which factor changes during an investigation?
- \* constant

- 3- Which is a quantitative observation?
- \* 15 m long
- \* red color



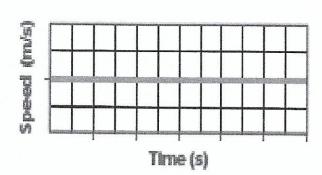
- 4- What is the Structure of (e)?
- \* an electron cloud
- \* a neutron
- \* a nucleus
- \* a proton
- 5- Which type of elements represents almost 3/4 of the periodic table?
- \* metalloids
- \* metals

\* nonmetals

- 6- Which does not have bias?
- \* accurate records \* equipment choice \* funding source \* hypothesis formation
- 7- The graph below represents the motion of a swimmer. Which sentence best

## describes the swimmer's motion?

- \* The swimmer is at rest
- \* The swimmer is in constant motion.
- \* The swimmer's speed is changing.
- \* The swimmer is accelerating.



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8- As the distance between two objects increases, the gravitational force between the objects:

- \* increases.

9- A plane is flying in a strong wind. The airplane is exerting 85 N to the East. The wind is exesting 100 N to the West. What is the net force?

\* 185 N, to the East

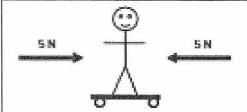
\* 185 N, to the West

\* 15 N, to the East

\* 15 N. to the West

10- A skateboarder is traveling at a constant speed to the left. He has the two forces act on him. Which sentence describes the motion of the skateboarder when the two forces act on him:

- \* His speed decreases. \* His motion stays the same



11- Which is the result of an object's motion?

\* a change in mass

\* a change in position

\* a change in reference point

\* a change in volume

12- Which physical property is NOT commonly used to separate mixtures?

- \* magnetism
- \* density
- \* conductivity
- \* solubility

13 - What does not change ina physical change?

- \* state of matter

- \* volume

14- An ion contains 10 electrons, 12 protons, and 13 neutrons, what is the ion's charge?

\* 2 -

- \* 1 -
- \* 2+

\* 3+

15- What does the decimal number in an element key tell us?

- \* atomic mass



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## Question 2

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First: Use the table below to answer questions (16, 17):

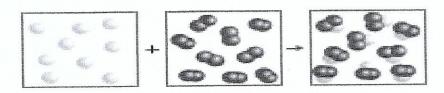
16- Which car had a negative acceleration?

17- Which car or cars had an acceleration greater than 2 m/s<sup>2</sup>?

car	Initial	Final	Time
	Speed	Speed	(s)
	(m/s²)	(m/s²)	
Α	0	25	10
В	25	15	10
С	15	26	20
D	10	10	25

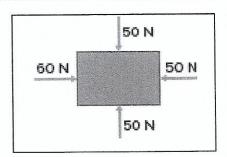
Second : Answer these questions:

18- Write how the picture shows conservation of mass.

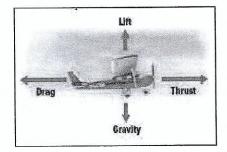


19-How can you make the chemical reaction between vinegar and baking soda faster?

20- The picture shows the forces acting on a box. write the motion of the box.



21- There are (4) forces acting on a plane .How do the forces change the plane's motion?



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22- In which time period did the object have a constant speed?

23- Which word describes the motion from( 8 to 10 )seconds?

24- Choose and write the acceleration times in Fig.

25- Write two types of movements that do not follow Newton's three laws?

First: The graph below	shows	temperature	over	time	as	а	substance	changes	from
solid to liquid to gas.					4	F		Gas	

26- Write why the graph has horizontal lines.

Solid Solid Adding Thermal Energy ->

27- Match the frist column to the second column:

number	First column	Second column		
()	Melting point	1- The temperature when a substance changes from a		
		liquid to a gas		
()	Boiling point	2- the mass per unit volume of a substance		
()	Density	3- the amount of space something takes up		
()	Volume	4- The temperature when a substance changes from a		
		solid to a liquid		
()	Mass number	5-atoms of the same element that have		
		different numbers of neutrons.		
()	Isotopes	6-the total of the number of protons and neutrons in an		
		atom		

.....

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#### Second : Answer these questions:

\* Use the picture below to answer questions (28 and 29)

If your answer was complete you will get gift of 5 degrees





28- Find the atomic model in the picture, and write its properties?
29- How is this atomic model difference from the modern atomic model?
30-Which reaction starts with a neutron and finishes in the creation of a proton and a high-energy electron?
beta decay  31- What are the each horizontal rows in the modern periodic table called?
32- Write why is mercury used in thermometers?

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