

JM



**SMP RSBI FORUM YOGYAKARTA SPECIAL REGION  
SEMESTER 1 TEST  
ACADEMIC YEAR 2009/2009**

Subject	:	SCIENCE
Grade	:	7
Day/Date	:	
Time	:	

**INSTRUCTIONS**

1. Using a 2B type pencil, fill in the available computerized answer sheet with your identity as instructed.
2. You have 120 minutes to finish the test.
3. There are 50 test items: 50 multiple choice
4. Check and read the test items before you answer them.
5. Report to the test supervisor if you find a blurred, damaged, or incomplete test paper.
6. If necessary, ask the test supervisor for a piece of scrap paper.
7. You are not allowed to use a mobile phone, and also dictionaries.
8. Check your answer sheet before you submit it to the test supervisor.
9. You are not allowed to make notes on, photocopy, or multiply the test paper.

**Choose the correct answer!**

1. Something that can be measured, has value and has the certain units is ....

- a. quantity
- b. units
- c. measurement
- d. basic quantity

2. Look at the table below:

No	Quantities	Units	Measuring
1	Length	Cm	Mistar
2	Mass	Kg	Balance
3	Time	Secon	Stopwatch
4	Temperature	Celcius	Thermometer

Basic quantities of measuring device and units according to international standard are shown by numbers ....

- a. 1 and 2
  - b. 2 and 3
  - c. 3 and 4
  - d. 1 and 4
3. A sack of cement has mass 40 kg. The statement below which is called quantity is...
- a. sand
  - b. sack
  - c. mass
  - d. kg
4. Which of the followings belong to base quantities?
- a. Length, mass, and weight
  - b. Length, area, and volume
  - c. Mass, length, and time
  - d. Mass, weight, and volume
5. The followings are derived Quantities.....
- a. volume, mass and density
  - b. time, length and force
  - c. length, velocity and time
  - d. force, density and volume

6. The temperature of a body expresses....
- a. the amount of energy of the body
  - b. the hotness or coldness degree of the body ✓
  - c. the expansion measure of the body
  - d. the increase of volume of the body

7. Absolute zero temperature is temperature when ....

- a. the ice melt ✓
- b. particle in a substance do not move
- c. the salt water is freezing
- d. gas changes to be liquid

8. A room has temperature of  $30^{\circ}\text{C}$ . What is the temperature if it is expressed in Fahrenheit scale?

- a.  $43^{\circ}\text{F}$
- b.  $50^{\circ}\text{F}$
- c.  $68^{\circ}\text{F}$
- d.  $86^{\circ}\text{F}$  ✓

$$6 \times 9 = 54$$

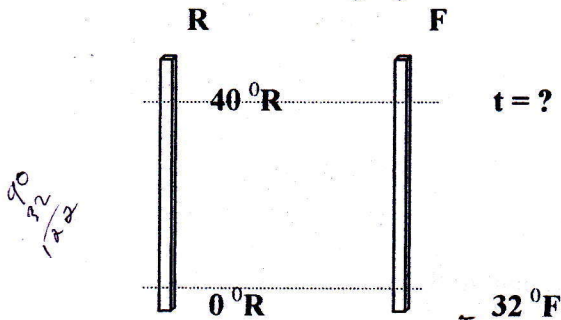
$$\frac{32}{8} = 4$$

$$54 - 4 = 50$$

9. The boiling point of water on the sea level at normal pressure is ....

- a.  $76^{\circ}\text{C}$
- b.  $78^{\circ}\text{C}$
- c.  $98^{\circ}\text{C}$
- d.  $100^{\circ}\text{C}$  ✓

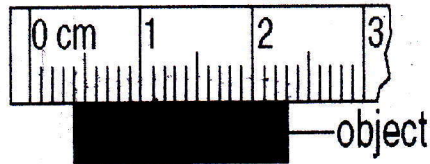
10. Consider the following figure of thermometer !



The value of t is ....

- a.  $22^{\circ}\text{F}$
- b.  $54^{\circ}\text{F}$
- c.  $122^{\circ}\text{F}$  ✓
- d.  $212^{\circ}\text{F}$

11. Look at the picture!



The figure shows a ruler that is used to measure the size of an object. The length of the object is ....

- a. 1.4 cm
- b. 1.9 cm ✓
- c. 2.0 cm
- d. 2.3 cm

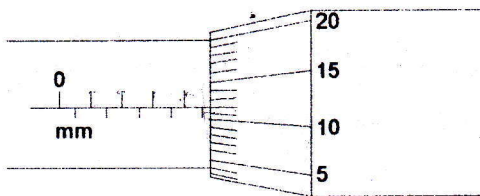
12.



What is the reading of the vernier caliper shown above?

- a. 3,23 cm ✓
- b. 3,53 cm
- c. 3,27 cm
- d. 3,37 cm

13. Show the figure below:

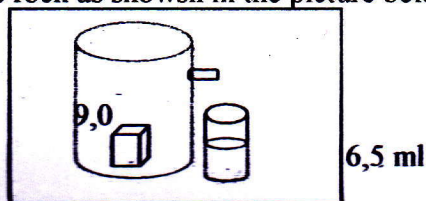


What the measurement result indicated ?

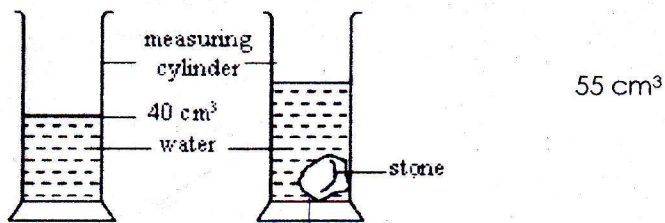
- a. 0,410 cm
- b. 0.412 cm
- c. 0,452 cm
- d. 0,462 cm ✓

14. The volume of the rock as shown in the picture below is ....

- a. 1,5 ml
- b. 6,5 ml ✓
- c. 8,0 ml
- d. 9,0 ml



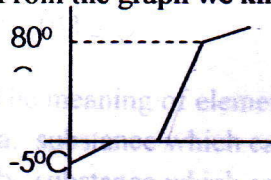
15.



What is the volume of the stone in the diagram above?

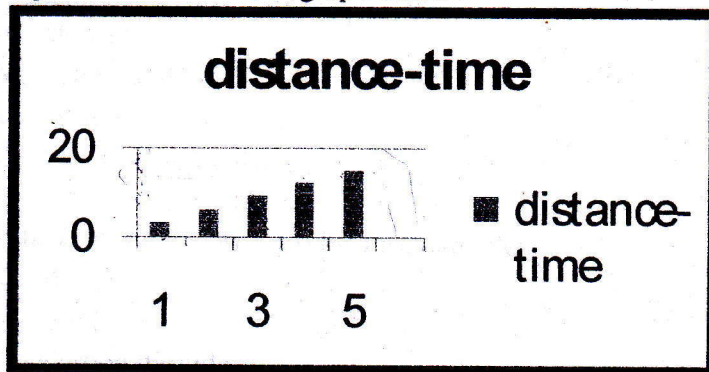
- a. 15 cm<sup>3</sup> ✓
- b. 40 cm<sup>3</sup>
- c. 55 cm<sup>3</sup>
- d. 95 cm<sup>3</sup>

16. From the graph we know that the boiling point of water is ....



- a. -5°C
- b. 0°C
- c. 80°C ✓
- d. 100°C

17. Pay attention to the bar graph below!

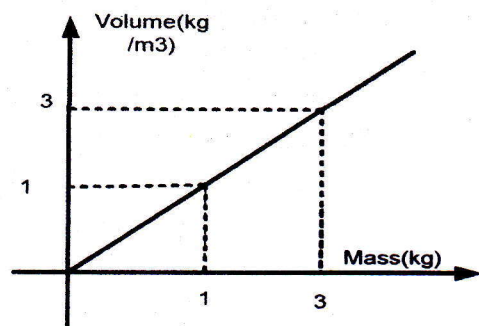


55  
40  
15

From the graph we can see that at the fifth second the thing will achieve the distance....

- a. 5
- b. 10
- c. 15 ✓
- d. 20

18. Look the density graph of the substance below.



Based on the graph above what is the mass of the substance if its volume is 10 m<sup>3</sup>?

- a. 1 kg
- b. 3 kg
- c. 5 kg
- d. 10 kg ✓

19. The meaning of element below which is the most correct is ....

- a. substance which can dissociated into other substances using a physical process
- b. substance which can be dissociated into other substances using a chemical reaction
- c. substance which cannot be dissociated anymore into other substance using an ordinary chenicak reaction
- d. substance which cannot be dissociated anymore into other substance using a physical prosess. *di prosess*

20. A substance which consists of two element or more that are chemically formed is named.....

- a. element
- b. compound ✓
- c. mixture
- d. element molecule

21. Which of the following substances are elements?

- a. Water
- b. Gold ✓
- c. Carbon dioxide
- d. Ammonia

22. The following statements are described the properties of mixture

- 1) There is not any chemical reaction during the making mixture. *3*
- 2) The properties of element which composed the mixture can be found on the solution. *X*
- 3) The element of mixture can be mixed with different kinds of comparison. *3*
- 4) Can be separated physically *3*

The correct statement are ....

- a. 1,2 and 3 only
- b. 1 and 3 only
- c. 2 and 4 only
- d. 1,2, 3 and 4 *✓*

Element, Compound, mixture.

23. The following are kinds of compounds, except.....

- a. pure water *biotic natural phenomena*
- b. acetic acid
- c. ammonia *✓*
- d. Syrup *→*

24. Which of the following mixture separation techniques that use the different boiling points principle ?

- a. Chromatography *phenomena is black*
- b. Filtration
- c. Distillation *✓*
- d. Sedimentation. *phenomena is*

25. Filtration is a process of mixture separation based on .....

- a. the difference in boiling points
- b. the difference in the size of particles *✓*
- c. the difference in the shape of particles
- d. the difference in the volume of particles

26. The condition of environment around us which is shown by the condition of non-living things is called ...

- a. biotic object
- b. abiotic object
- c. biotic natural phenomena
- d. abiotic natural phenomena