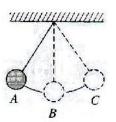


- 7. Ahmad makes a prediction that the rougher the surface, the slower the object moves on it. What is the step of scientific method involved?
 - A. Collecting data
 - B. Suggesting a hypothesis
 - C. Identifying the variables
 - D. Analysing data
- 8. Which of the following must be done when acquiring scientific knowledge?
 - I Analyse and interpret the data.II Modify the hypothesis to fit the analysis.
 - III Report only the data that supports the hypothesis.
 - A. I only C. II and III only
 - B. I and II only D. I, II and III only
- 9. Which of the following statements is not true?
 - A. Read the label first before using a substance
 - B. Scientists conduct experiments to test out hypothesis
 - C. Taste chemicals before using them.
 - D. Light the match first before turning on the gas.
- 10. The information below shows some steps in scientific investigation.
 - P: Collecting data
 - Q: Making a conclusion
 - R: Planning the experiment
 - S: Analysing and interpreting data
 - T: Writing a report

Which of the following is the correct order?

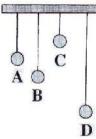
| A. R, P, Q, S, T | C. R, S, P, Q, T |
|------------------|------------------|
| B. R, Q, P, S, T | D. R, P, S, Q, T |

11. Diagram 2 shows a pendulum.



Which of the following shows a complete oscillation?

- I Å→C→A
- $II \quad A \rightarrow C \rightarrow B$
- III $B \rightarrow A \rightarrow C \rightarrow B$
- A. I and II only C. II and III only
- B. I and III only D. I, II and III
- 12. A pendulum takes 45 seconds to complete 15 oscillations. Find the periodic time for one oscillation. A. 1.5s C. 2.5s
 - B. 2.0s D. 3.0s
- 13. Diagram 3 shows four pendulums



Which of the above pendulums swings the fastest?

14. Table 1 shows the prefixes of *SI* units used in measurement.

milli kilo micro centi Mega

Table 1

Arrange the prefix values in ascending order.

- A. Micro, milli, centi, kilo, Mega
- B. Mega, centi, micro, kilo, milli
- C. Milli, kilo, micro, centi, Mega
- D. Mega, kilo, centi, milli, micro

| correctly to its SI unit? | |
|---|----------------|
| Physical SI unit quantity | 20. Wł me |
| I Mass Gram | I |
| II Length Metre | II |
| III Time Second | 111 |
| | Α. |
| IV Electric Ampere | В. |
| current | |
| A. I and II only C. III and IV only B. II and III only D. II, III and IV only 16. Which of the following is converted correctly? | 21. Dia a c |
| A. 105km = 1050m B. 10.5cm = 0.105m C. 1.05mm = 0.0105km D. 0.105m = 1.05km | |
| 17. Which of the following is equivalent to | Wh |
| 3570m? | ma |
| A. 35 700mm C. 3 570 000cm | A. |
| B. 357 000dm D. 3.57Km | B. |
| 18. What is the difference between mass and weight? they are measured using different instruments They are measured in different units They are measured in different places. A. I and II only C. II and III only B. I and III only D. I, II and III 19. Diagram 5 shows a measuring tool. What is the function of the tool shown | 22. Dia sto |
| above? A. To measure the mass of an object B. To measure the weight of an object. | |

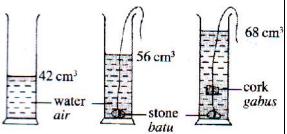
C. To measure the density of an object D. To hold an object

- 20. Which of the following can be used to measure mass?
 - Spring balance
 - II Beam balance
 - III Electronic balance
 - A. I and II only C. II and III only
 - B. I and III only D. I, II and III
- 21. Diagram 6 shows the weight of a fish , a crab and a prawn



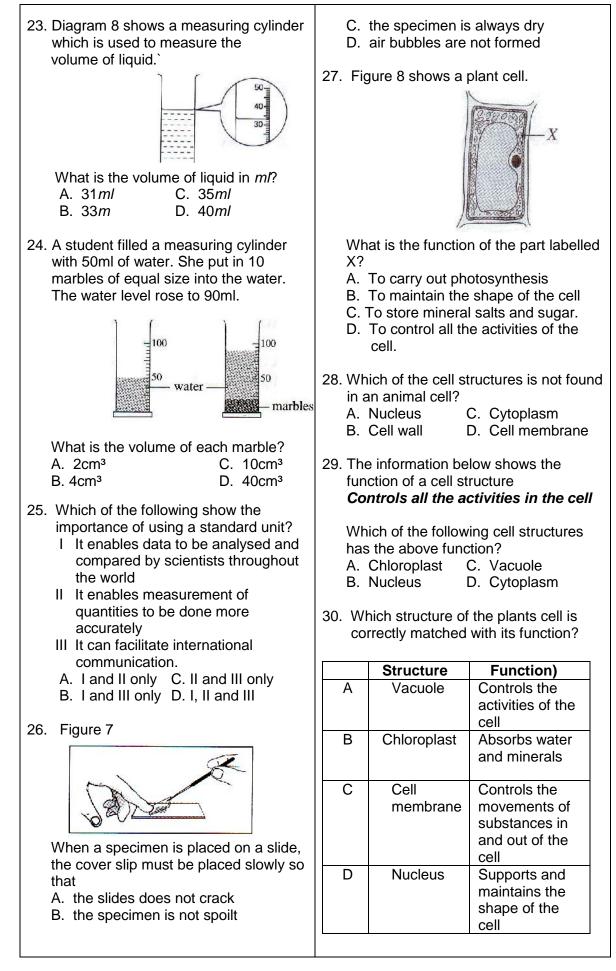
What is the weight of the fish if the total
mass of the crab and prawn is 2.5kg?A. 0.7kgC. 1.5kgB. 0.9kgD. 1.8kg

22. Diagram 7 shows how the volume of a stone and a cork is measured.



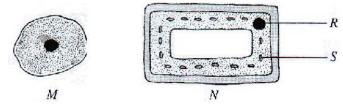
Which of the following shows the correct volume of the stone and the cork?

| | Stone (cm ³) | Cork (cm ³) |
|---|-----------------------------|-------------------------|
| A | 10 | 5 |
| В | 12 | 6 |
| С | 11 | 8 |
| D | 14 | 12 |



Section B

1. Diagram 1 shows cells *M* and *N*.



(a) State the name of cell *M* and *N*.

| i. | Cell M: | 1(m) |
|-----|---------|----------|
| ii. | Cell N: | 1(m) |

(b) Structure Q controls the movement of substances in and out of the cell

Label structure Q on cell M and cell N.

(c) Complete Table 1 by naming and stating the function of structure *R* and *S*.

| Structure | Name of structure | Function of structure |
|-----------|-------------------|-----------------------|
| R | | |
| S | | |
| | | 4(m) |

2. Diagram 2 shows an experiment is carried out to study how to measure the thickness of the measuring tube by using two measuring tools.

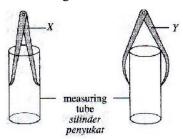


Table 2 shows the results of the experiment

| Measurement | 1 | 2 | Average |
|------------------|-----|-----|---------|
| Measuring tool X | 2.1 | 2.2 | 2.15 |
| Measuring tool Y | 2.3 | 2.3 | 2.30 |
| Table 2 | | | |

(a) Name the measuring tools X and Y.

| Х | : | 1(m) |
|---|---|------|
| Y | : | 1(m) |

(b) What is the thickness of the measuring tube shown in the diagram?

_ 2 (m)

1(m)

- (c) State two other things that can be measured by using the measuring tools as shown in the diagram.
 - 1. _____1(m) 2. _____1(m)
- 3. Table 3 shows some common hazards symbols that can be found in a science laboratory.
- Hazard SymbolsMeaningAn ExampleImage: Concentrated acidsConcentrated acidsConcentrated acidsImage: Concentrated ac
- (a) Complete the table

Table 3

4(m)

(b) Complete the table with the correct answers

| Physical quantity | S.I Unit | Symbol of Unit |
|-------------------|----------|----------------|
| length | | |
| | Kelvin | |
| | | kg |

3(m)

Answer Scheme Science Test 1 Form 1 Section A

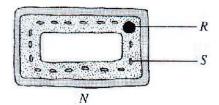
| Section A | | |
|---|---|--|
| 1 | D | |
| 2 | С | |
| 3 | В | |
| 4 | В | |
| 5 | D | |
| 6 | А | |
| 7 | В | |
| $ \begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 9 \end{array} $ | А | |
| 9 | С | |
| 10 | D | |
| 11 | В | |
| 12 | D | |
| 13 | С | |
| 14 | А | |
| 15 | D | |
| 16 | В | |
| 17 | D | |
| 18 | А | |
| 19 | В | |
| 20 | С | |
| 21 | C | |
| 22 | D | |
| 23 | В | |
| 24 | В | |
| 25 | D | |
| 26 | D | |
| $ \begin{array}{r} 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ \end{array} $ | D C B B D A B A C D B B D C C A B D C C A B D C C C D B B B C C C D B B B B D D A B B C C C C D B B B C C C C C C C C C C | |
| 28 | В | |
| 29 | В | |
| 30 | C | |

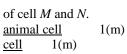
Section B

Diagram 1 shows cells M and N.



M





i Cell *M*: ii Cell *N:* <u>plant</u>

State the name

Structure Q controls the movement of substances in and out of the cell Cell membrane 1 (m)

Complete Table 1 by naming and stating the function of structure *R* and *S*.

| Structure | Name of structure | Function of structure |
|-----------|-------------------|--|
| R | Nucleus | Control all the activities of the cells |
| S | Chloroplast | Carries out photosynthesis to produce food |

4(m)

Table 2 shows the results of the experiment

| Measurement | 1 | 2 | Average |
|------------------|-----|-----|---------|
| Measuring tool X | 2.1 | 2.2 | 2.15 |
| Measuring tool Y | 2.3 | 2.3 | 2.30 |

Table 2

Name the measuring tools X and Y.

X : Internal Callipers 1(m)

Y : External Callipers 1(m)

2(b) What is the thickness of the measuring tube shown in the diagram? $= d^2 - d^1 cm$ 2 = 2.30 - 2.152

=0.075cm

2(c) Beaker 1(m) glass bottle 1(m)

| Hazard Symbols | Meaning | An Example |
|----------------|-------------|----------------------------------|
| | corrosive | Concentrated acids |
| | Radioactive | Uranium |
| | Poisonous | Mercury/ lead/ hydrogen sulphide |
| | Flammable | Alcohol/ phosphorus/ petrol |

Table 3

(b) Complete the table with the correct answers

| Physical quantity | S.I Unit | Symbol of Unit |
|-------------------|----------|----------------|
| length | Metre | m |
| Temperature | Kelvin | K |
| Mass | Kilogram | kg |