



Name _____ Class _____ Roll no. _____ Date _____ Marks _____ / 32

1 Key words**[3]**

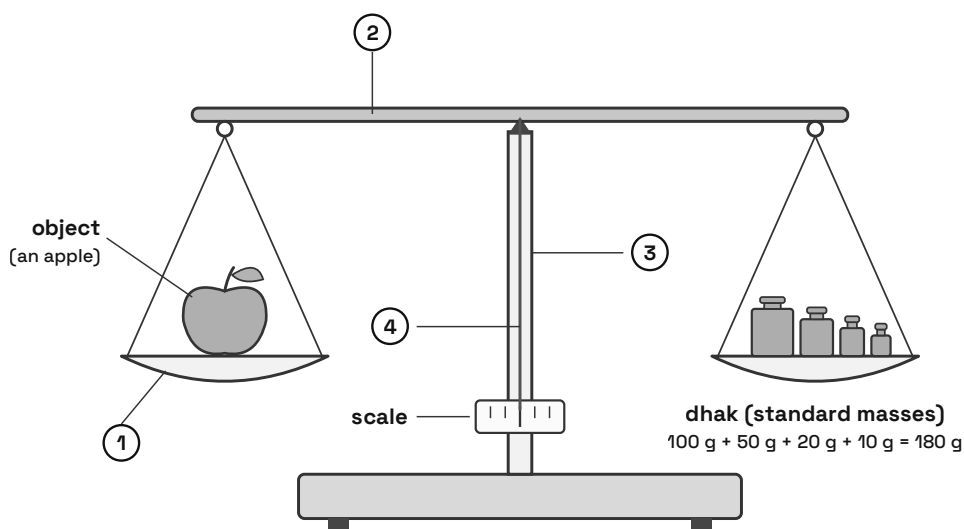
Fill in the blanks with words from the box. One word in the box is not needed. Each blank carries 0.5 mark.

area conclusion length measurement square meter time volume

We need to take _____ of a body to know its exact quantity. The interval between any two events is called _____. The distance between any two points is called _____. The SI unit of area is the _____. The _____ of a liquid is measured using a measuring cylinder. A _____ is drawn after the analysis of data.

2 Label the diagram**[2]**

The diagram shows a physical balance (beam balance). Write the names of the parts numbered 1 to 4. Each carries 0.5 mark.



1. _____

2. _____

3. _____

4. _____



3 Match the following

[3]

Match each physical quantity in Column A with its SI unit in Column B. Write the letter in the box. One unit in Column B is not needed. Each match carries 0.5 mark.

Column A

1. length
2. mass
3. time
4. temperature
5. area
6. volume

Column B

- | | |
|----------------------|-----------------|
| <input type="text"/> | a. kelvin |
| <input type="text"/> | b. cubic meter |
| <input type="text"/> | c. kilogram |
| <input type="text"/> | d. liter |
| <input type="text"/> | e. meter |
| <input type="text"/> | f. square meter |
| | g. second |

4 Multiple choice

[5]

Choose the correct option for each of the following questions.

- | | |
|---|-------------------------------------|
| i. How many seconds are there in an hour? | [1] |
| a. 3600 s | b. 4800 s |
| c. 2400 s | d. 6000 s |
| ii. What is the SI unit of mass? | [1] |
| a. pound | b. dharni |
| c. kilogram | d. tonne |
| iii. What is the SI unit of electric current? | [1] |
| a. volt | b. ohm |
| c. watt | d. ampere |
| iv. Rita guesses that a bigger stone will sink faster than a small one. Which step of the scientific learning process is she doing? | [1] |
| a. asking a question | b. guessing the probable answer |
| c. testing | d. presenting a report |
| v. Which of these is not a physical quantity? | [1] |
| a. the length of a pencil | b. the temperature of tea |
| c. how beautiful a flower is | d. the time taken to walk to school |

5 Very short answers

[3]

Write very short answers to the following questions.

- | | |
|---|-----|
| a. Which step of the scientific learning process is the most important? | [1] |
| <hr/> | |
| <hr/> | |
| b. What is the normal temperature of the human body? | [1] |
| <hr/> | |
| <hr/> | |



c. Name any two local units used in Nepal to measure grains. [1]

6 Short answers [6]

Write short answers to the following questions.

a. What is measurement? Give an example. [2]

b. Why was the SI system developed? [2]

c. Write any two differences between a local unit and an SI unit. [2]

7 Long answer [4]

Write a long answer to the following question.

Show the steps of the scientific learning process in a flow chart, in order. Write one feature of any two of the steps.

8 Numerical problem [4]

Solve the following problem. Show your working.

Convert:

- i. 2 hours into seconds (1)
- ii. 15 kg into grams (1)
- iii. 2 m^2 into cm^2 (1)
- iv. 3 km 250 m into meters (1)



