SANGAM S.K.M COLLEGE-NADI

YEAR 9 BASIC SCIENCE

WORKSHEET

WEEK 2

1. 1. When heating or mixing substance _____

   A. Look inside the flask and beaker

   B. Point the open end of the test tubes towards your friend

   C. Never look inside the flask or beaker

   D. Hold the beaker or test tube with your hand while heating

2. State two General Safety lab rules.

   _____

   _____

3. . Write the correct name for the symbol given below.

 i._____	 ii._____	 iii._____

4. Name three types of microscopes used in the laboratory.

   _____

   _____

5. Differentiate between monocular and binocular microscope.

   _____

   _____

   _____

6. Why do you use microscope in laboratory?

   _____

   _____

7. State the procedure for carrying a microscope?

   _____

   _____

8. Using the word list given below, select a word and fill in the blanks to make each sentences correct.

Word list: heating, blue, hotter, open, safety, air, collar, gas, closed, yellow

The _____ can be rotated, which changes the size of the_____ hole. When the air hole is _____, air gets in and mixes with the _____. This makes the gas burn _____, and the color of the flame is pale_____. When the air hole is _____, no _____gets in, and the color of the flame is bright_____. This flame is called the _____ flame. It is not as hot as the _____ flame, and it is very sooty. This means that it is not good for_____. But it can still burn you.

9. State the uses of given laboratory equipment's.

a. Thermometer

_____

b. Bunsen Burner

_____

c. Beaker

_____

d. Hand lens

_____

e. Watch glass

_____

10. Define the following terms and give an example:

i. Observation

_____
_____
_____

ii. Hypothesis

_____
_____
_____

11. Complete the following:

A _____ is the part of a science experiment that acts as a standard by which to compare experimental observations.

WEEK 3

1. State three important things to follow when drawing graphs.

   1._____

   2._____

   3._____

2. Identify the different types of graphs used when analyzing data.

   _____

   _____

3. Define the following terms:

   i. Aim

   _____

   ii. Inference

   _____

   iii. Method

   _____

4. Explain the method of lighting a Bunsen burner in the laboratory.

   _____

   _____

   _____

5. State three safety precautions that needs to be adhered to while doing experiments in the lab.

   _____

   _____

   _____

6. What is the color of safety flame in a Bunsen burner?

   A. Blue C. Red

   B. Yellow D. White

7. Which one of the following instructions is the proper way of heating a test tube?

   A. Point the test tube to yourself.

   B. Rotate the test tube while heating.

   C. Heat the bottom of the test tube.

   D. Have the test tube more than one third full.

8. What is the function of leaves in plants?

A. Make food for plant.
C. Carry water to leaves.
B. Reproductive part of plant.
D. Store food.

9. What is the main purpose of the flower?

A. reproduction
C. to look pretty
B. to attract bees
D. to smell good

10. Differentiate between anatomy and morphology.

_____
_____
_____

11. State the function of the following parts of a plant

(i) Roots

_____
_____

(ii) Stem

_____
_____

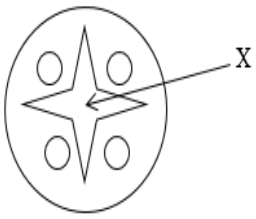
(iii) Leaf

_____
_____

(iv) Root hairs

_____
_____

12. The diagram below shows the cross-section of a root. The function of the structure **X** is to transport



A. food from leaves to all parts of the plant.

B. food from roots to leaves.

C. water from roots to leaves.

D. water from leaves to roots