

EXERCISE

Q1. Mention one use of each of the following equipments:

a) Spirit lamp

ans:- It is used to heat up substances.

b) Test tube

ans:- It is used to conduct tests with small quantities of chemicals for heating/boiling purposes.

c) Conical Flask

ans:- It is used to hold sufficient quantities of substance in the form of solution.

d) Evaporating dish

ans:- It is used for evaporating liquids.

e) Wire gauge

ans:- It is used to keep glass apparatus (flask, beaker) on which heating is in progress. It is also used for uniform distribution of heat.

f) Beaker

ans:- Beaker is used for keeping of solution.

g) Mortar and Pestle

ans:- They are used to grind and crush solid substances into a fine powder.

h) Measuring cylinder

ans:- It is used to measure the volume of (mainly) liquid substance.

i) Glass tube

ans:- It is used to transfer ~~liquids~~ fluids or gases from one vessel to another.

j) Gas jar

ans:- It is used for collecting gases and holding them in captivity vacuum.

k) Reagent bottle

ans:- It is used for storing chemicals.

Q2. From what materials are the following made up of?

a) Test tube rack

ans:- It is made up of wood or plastic.

b) Test tube holder

ans:- It is made up of iron clamp at front and wood or plastic handle.

-ds at the other end.

c) Measuring cylinder

ans:- It is made up of glass only.

d) Wire gauge

ans:- It is made up of meshed iron wire and a thin asbestos sheet that is fixed at its centre.

e) Mortar and Pestle

ans:- It is made of porcelain.

Q3: List any five precautions taken care of while performing an experiment in a chemistry laboratory?

ans:- i) Don't touch or taste any unknown ~~substance~~ substance.

ii) Don't work alone in the laboratory.

iii) Use only small amount of quantity of chemical to carry out experiment.

iv) Don't throw hot concentrated acids into the sink.

v) Always wear a lab coat which will protect your body from harmful chemicals.

Q4: Answer in brief

a) Why is chemistry known as experimental science?

ans:- Chemistry is known as experimental science as an experiment is performed under controlled conditions in an activity and we observe a natural or an artificially created phenomenon.

b) Why are most apparatus made of glass?

ans:- Most of the laboratory apparatus are made of glass because:-

- i) Glass is easy to clean.
- ii) Glass is transparent and we can ~~see~~^{see} through it clearly.
- iii) Glass withstands high temperatures.
- iv) It does not react with most of the chemicals used in experim

Q5. Label the marked equipments in the diagram given below?

ans: i) Glass tube (delivery tube).

ii) Flask (round bottomed).

iii) Wire gauge.

iv) Burner.

v) Tripod (stand).

vi) Gas jar.

vii) Water trough.

viii) Water.