

Exercise

1) mention one use of each of the following apparatus.

a) Spirit lamp - It is used to heat up substances

b) Test tube - It is used to conduct tests with small quantities of chemicals for heating and boiling purposes

c) Conical flask - It is to hold sufficient quantities of substance in the form of solution.

d) Evaporating dish - It is used for evaporating liquids.

e) Wire gauze - It is used to keep glass apparatus (Flask beaker) on while heating is in progress.

It is also used for uniform distribution of heat.

f) Beaker - It is used for keeping of solutions.

g) Mortar and pestle - It is used to grind and crush solid substances into a powder.

h) Measuring cylinder - It is used to measure the volume of (mainly) liquid substances.

- 1) Glass tube - ^{It} is used to transfer fluids or gases from one vessel to another.
- 5) Gas jar - ^{It} is used for collecting gases and holding them in captivity vacuum.
- k) Reagent bottles - It is used for storing chemicals.
- 2) From what materials are the following made up of?
- a) Test tube rack - It is made up of ~~o~~ wood or plastic.

- b) Test tube holder - It is made up of a iron clamp at front end wood or plastic handle at other end.
- c) Measuring cylinder - It is made up of glass.
- d) Wire gauze - It is made of meshed iron wire and a thin asbestos sheet that is fixed at its centre.
- e) Mortar and pestle - It is made of porcelain.

3) List any five precautions taken care of while performing an experiment in a chemistry laboratory.

Ans - Five precautions to be taken in laboratory are -

- 1) Do not touch or taste any unknown substance.
- 2) Use only small quantity of chemical to carry out experiment.
- 3) Do not work alone in the laboratory.
- 4) Do not throw hot concentrated acids into the sink directly.

5) Always wear an apron in the laboratory to protect your clothes.

4) Answer the following

a) ~~chemistry~~ why is chemistry

known as experimental science?

Ans- Chemistry is known as experimen

tal 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 is made of glass? ~~because~~:

Ans- Most of the Laboratory apparatus is made of glass because:

1) Glass is easy to clean.

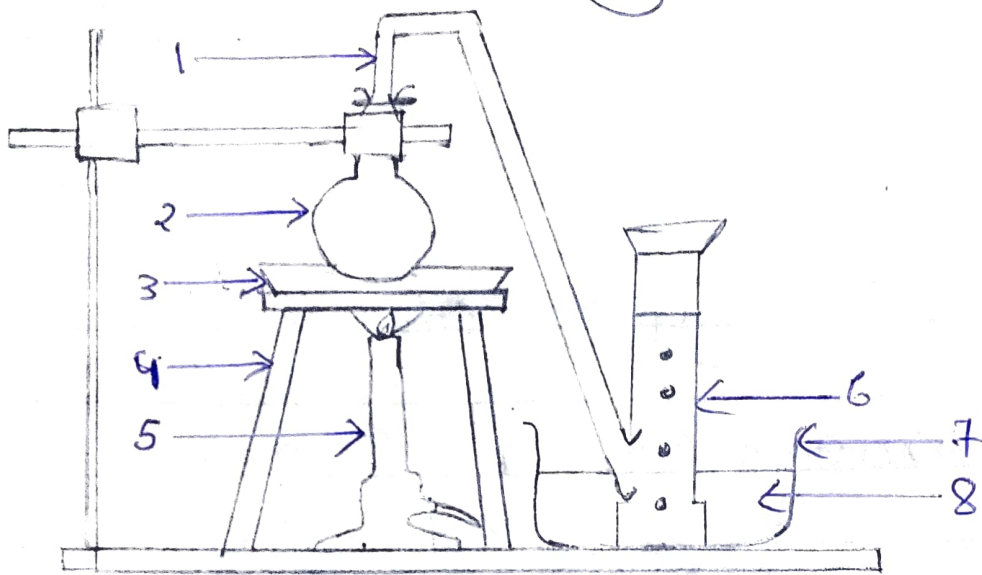
2) Glass is transparent material and we can see through it clearly.

3) It does not react with most of the chemicals used in experiments.

4) Glass withstands high temperatures.

5) Pyrex glass or borosil glass is a special type of glass which hardly expands on heating. Such glasses do not ~~work~~ break even at high temperatures.

5) Label the diagram below.



Answer-

1) Glasstube

8) Water.

2) Flask

3) Wire gauze

4) Burner

5) Tripod

6) Glas jarz

7) Water trough