

29.6.21 Answer the following

1) Mention one use of each of the following equipment!

(a) Spirit lamp: Spirit lamp is used to heat up substances.

(b) Test tube: Test tube is used to conduct test with small quantities of chemicals for heating and boiling purposes.

(c) Conical flask: Conical flask to hold sufficient quantity of substance in the form of solution.

(d) Evaporating dish: Evaporating dish is used for evaporating liquids.

(e) Wire gauze: Wire gauze is used to keep glass apparatus

on while heating is in progress. It is also used for distribution of heat.

(f) Beaker: Beaker is used for keeping of solutions.

(g) Mortar and pestle: Mortar and pestle is used to grind and crush the solid substances into powder.

(h) Measuring cylinder: Measuring cylinder is used to measure the volume liquid substances.

(i) Glass tube: glass tube is used to transfer liquid from one vessel to another.

(j) Glass jar: Glass jar is used for collecting gases and holding them in captivity vacuum.

(k) Reagent bottles: Reagent bottles is used to ~~store~~ store chemicals.

2) From what materials are the following made up of?

(a) Test tube: ~~Test tube~~ <sup>rack</sup> is made of wood or plastic.

(b) Test tube holder: Test tube holder is made of a iron clamp at front and wood or plastic handle at other end.

(c) Measuring cylinder: Measuring cylinder is made of glass.

(d) Wire gauze: Wire gauze is made of iron mesh wire and a thin asbestos sheet that is fixed at its centre.

(e) Mortar and pestle: Mortar and pestle <sup>are</sup> made of porcelain.

Q3) 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 chemicals to carry out experiments.
- 3) Do not work alone in the laboratory.
- 4) Always wear an apron in the laboratory to protect your clothes.
- 5) While heating keep the mouth of test tube away from your clothes, eyes and face.

Q4) Answer the questions in brief:

(a) Why 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 phenomena.

(b) Why are the most of apparatus made of glass?

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 break even at high temperatures.

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