

OBJECTIVE TYPE QUESTIONS

1. Fill In The Blanks :

- a) Experiment and observation are the two important basis of chemistry.
- b) A porcelain dish is used for evaporating.
- c) Test tube holder is used to hold the test tube while it is hot or being heated.
- d) Mortar and Pestle is used for grinding and crushing solid substances into a powder.
- e) Glass apparatus is made Pyrex or Borosil glass.

2. Match the items in Column A with their respective function in Column B.

Column A

Column B

- | | |
|---------------|---------------------------|
| a) Iron stand | i) To boil chemicals. |
| b) Test tube | ii) To keep solutions. |
| c) Funnel | iii) To stir solutions. |
| d) Beaker | iv) To support apparatus. |
| e) Glass rod | v) To transfer liquids. |

Column A

a) Iron stand

b) Test tube

c) Funnel

d) Beaker

e) Glass rod

Column B

i) To support apparatus

ii) To boil contents

iii) To transfer liquids

iv) To keep solutions

v) To stir solutions

3. Choose the correct alternative from the options given for each of the following statements.

a) Evaporating dish is made of

Ans) i) Porcelain

b) Spirit lamp is made of

Ans) i) all of the above

c) The apparatus to measure an accurate volume of a liquid is

Ans) iii) measuring cylinder

d) To pass a gas from one vessel to another, another, you will use

Ans ii) Delivery tube

e) To prevent the escape of a gas from a gas jar, you will cover its mouth with

Ans i) Watch glass

4. Write true or false against the following statements and correct the false ones.

a) A glass funnel is used to pour off liquids.
True

b) A test tube is used to test liquid chemicals.
False

Ans A test tube is used to test chemicals and for boiling and heating purposes.

c) A mortar and pestle is used for evaporation. False

Ans A mortar and pestle is used for grinding and crushing solid substances into powder.

d) A glass rod is used to stir solutions. True

e) A round-bottom flask is used to store chemicals. False

Ans → A reagent bottle is used to store chemicals.

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

a) Spirit lamp

Ans → Spirit lamp is used to heat up substances.

b) Test tube

Ans → Test tube is used to conduct tests with small quantities of chemicals for heating and boiling purposes.

c) Conical flask

Ans → Conical flask is used to hold sufficient quantities of substance in the form of solution.

d) Evaporating dish

Ans → Evaporating dish is used for evaporating liquids.

~~e)~~

e) Wire gauze

Ans → Wire gauze 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

Ans → It is used for keeping of solutions.

g) Mortar and Pestle

Ans → It is used to grind and crush solid substances into a powder.

h) Measuring cylinder

Ans → It is used to measure the volume of liquid substances.

i) Glass tube

Ans → It is used to transfer fluids or gases from one vessel to another.

j) Gas jar

Ans → It is for the collection of ~~tablets~~ gases and ~~captivity~~ holding them in captivity vacuum.

k) Reagent bottle

Ans) It is used for storing chemicals.

2) 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 an iron clamp at front and wood or plastic handle at other end.

b)

c) Measuring cylinder

Ans) It is made up of glass.

d) Wire gauze

Ans) It is made up of meshed iron wire and a thin asbestos sheet that is fixed at its centre.

e) Mortar and Pestle - It is made up of porcelain.

3) List any five precautions to be taken while performing an experiment in a Chemistry laboratory.

Ans) Five precautions to be taken while in laboratory are:-

- (i) Do not touch or taste any unknown substance.
- (ii) Use only small quantity of chemical to carry out experiment.
- (iii) Do not work alone in the laboratory.
- (iv) Do not throw hot concentrated acids into the sink directly.
- (v) Always wear an apron in the laboratory to protect your clothes.
- (vi) While heating keep the ~~mouth~~ mouth of test tube away from your eyes and face.
- (vii) The apparatus to be used in an experiment should be arranged neatly before beginning an experiment.
- (viii) Do not throw broken glass apparatus or used filter paper in the sink. Throw them in a dustbin.

4) Answer the following questions in brief:

a) Why is chemistry known as an 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.

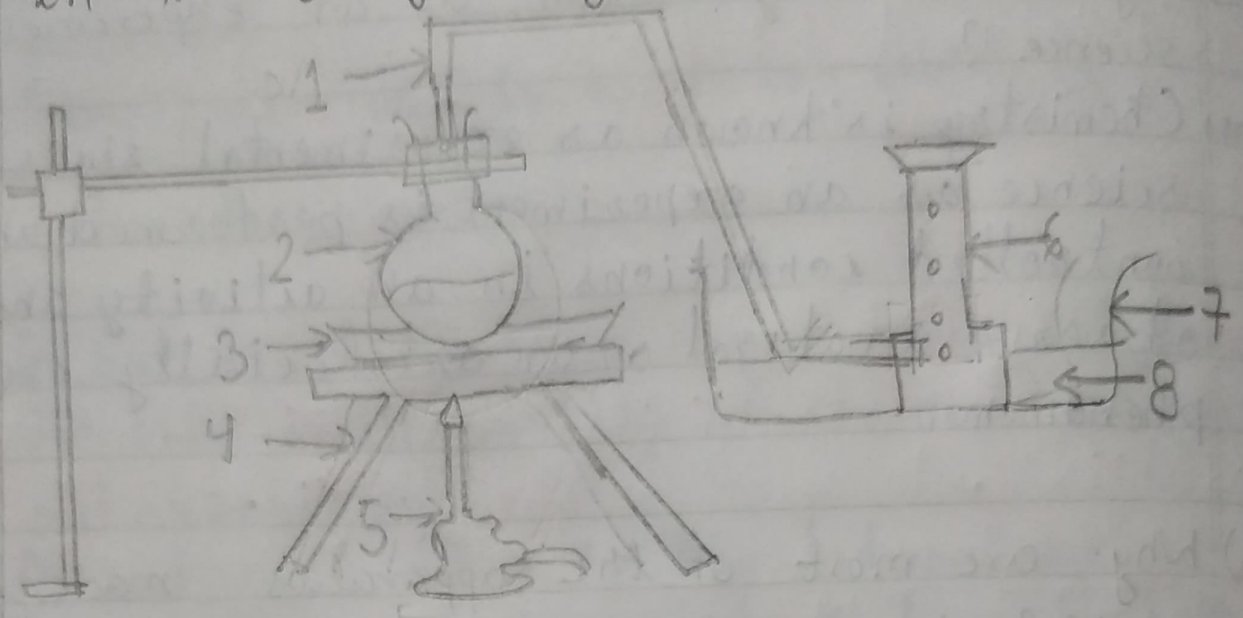
b) Why are most of the apparatus made of glass?

Ans) Most of the laboratory apparatus is made up of glass because:-

- Glass is easy to clean.
- Glass is transparent material and we can see through it clearly.
- It doesn't react with most of the chemicals used in experiments.
- Glass withstands high temperature.
- Pyrex glass or Borosil glass is special type of glass which hardly expands on heating. Such glasses do not break at high temperatures.

5. Label the marked equipments and apparatus in the diagram given below.

Ans)



1. Glass tube
2. Round bottom flask
3. Wire Gauze
4. Tripod Stand
5. Bunsen Burner
6. Gas jar
7. Water trough
8. Water

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