

Puspa Shrestha

Best Quality Resource Site for Class 11 And 12 Students
(Based on Updated Curriculum 2077)

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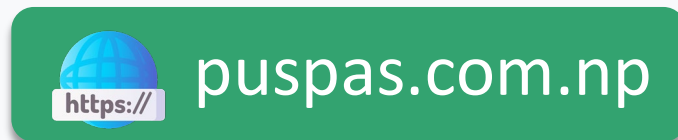


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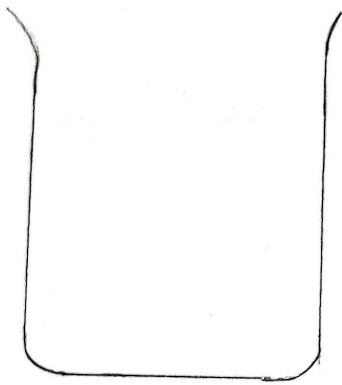


Fig 1 Beaker

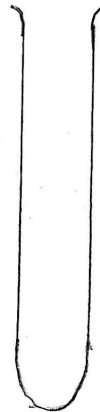


Fig. 2 : Test - tube



Fig. 3: Test tube holder

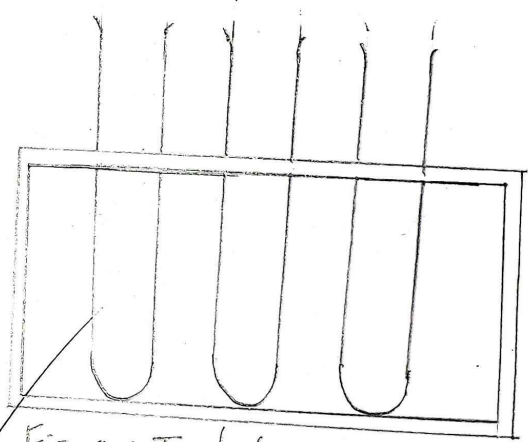


Fig 4: Test tube rack

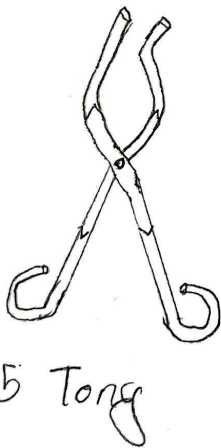


Fig:5 Tong



Fig. 6 Watch glass

EXPERIMENT NO: 1

NAME OF EXPERIMENT: TO STUDY DIFFERENT APPARATUS USED IN CHEMICAL LAB

- 1) Beaker: It is used for storing chemicals, transferring chemicals and heating chemicals.
2. Test-tube: It is used for carrying out different chemical reactions.
3. Test-tube Holder: It is used for holding test tube.
4. Test-tube Rack: It is used for keeping test tube after using for reaction.
5. Tong: It is used for lifting laboratory items including hot evaporating dishes, beakers, crucibles, etc.
6. Watch glass: It is used to evaporate a liquid, for heating a small amount of substance and as a cover for beaker.

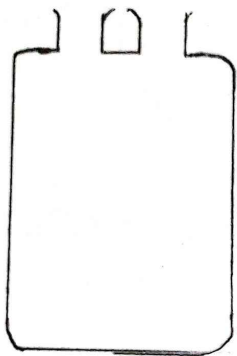


Fig. 7: Woulfe's bottle

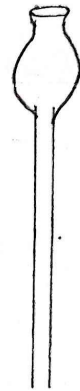


Fig. 8 Thistle funnel

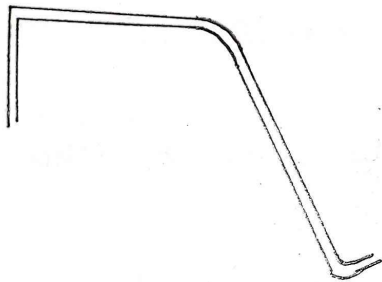


Fig 9: Delivery tube

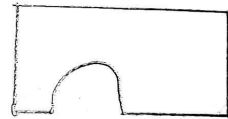


Fig 10. Beehive shelf



Fig 11 Gas jar

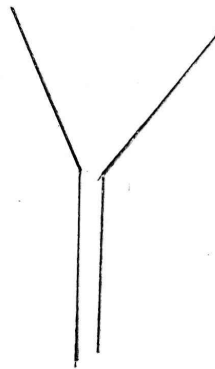


Fig 12 Funnel

7. Woulfe's Bottle :- It is used for preparation of different gas.
8. Thistle funnel :- It is used in pouring different types of chemicals into woulfe's bottle.
9. Delivery tube :- It is used to pass gas from one container to another.
10. Beehive shelf :- It is the laboratory instrument which gives support to the gas jar in preparation of gas.
11. Gas jar :- It is used in laboratory for collecting gas.
12. Funnel :- It is used to pour the solution or liquid from one container to another container.



Fig 13 Glass pipe

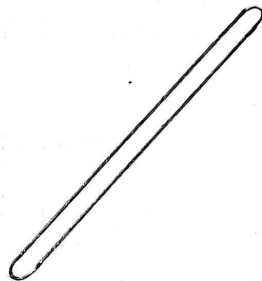


Fig 14 Glass rod



Fig 15 Porcelain basin

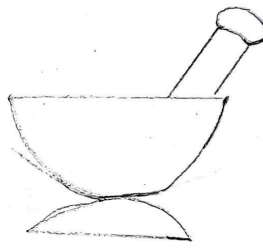


Fig 16 Mortar and pestle

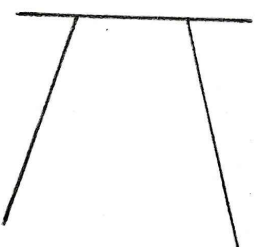


Fig 17 Tripod stand

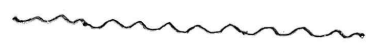
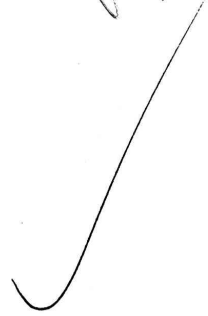


Fig 18 Wire gauge

13. Glass pipe:- It is used to connect other pieces of lab equipment or can be cut, bent and stretched for variety of uses.
14. Glass rod:- It is used to mix the solution or mixture of chemicals.
15. Porcelain basin:- It is used to evaporate excess solvents.
16. Mortar and pestle:- It is used for crushing or grinding substances.
17. Tripod stand:- It is used for the support of different vessels while heating chemicals.
18. Wire gauge:- It is used while heating different chemicals because it distributes the heat uniformly.



Fig 19 Eudiometer tube



Fig 20 Burette



Fig 21 Pipette

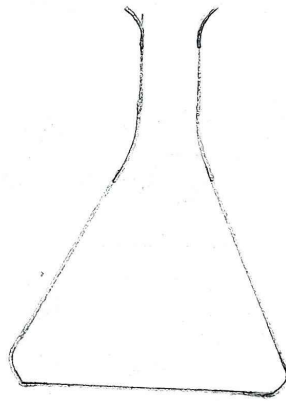


Fig 22 Conical flask

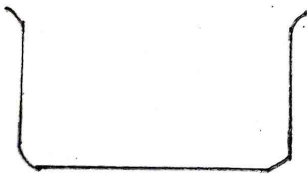


Fig: 23 Water trough

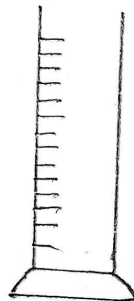


Fig 24 Measuring cylinder

19. Eudiometer tube: It is used to measure the change in volume of a gas mixture following a physical or chemical change.
20. Burette: It is used for delivering known volumes of a liquid or to measure the volume of liquid or a gas.
21. Pipette: It is the instrument which is used for taking out small but exact amount of liquid chemicals.
22. Conical flask: It is used for performing different chemical reactions in it.
23. Water trough: It is used to cool down the hot instruments and can be used for preparation of gas.
24. Measuring cylinder: It is used to measure the volume of different chemicals.

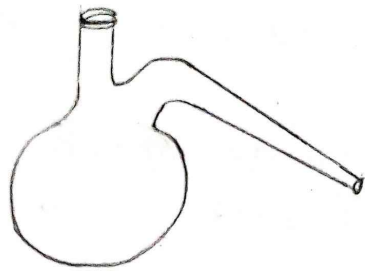


Fig 25 Glass retort

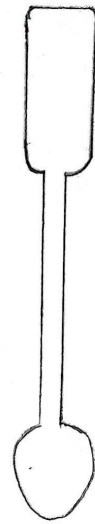


Fig 26 Spatulla



Fig 27 Blow pipe

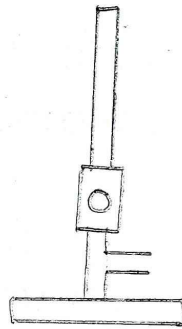


Fig 28 Burner

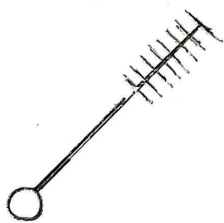


Fig 29 Brush



Fig 30 Volumetric flask

25. Glass retort: It is used for distillation of substance that are placed inside and subjected to heat.
26. Spatulla: It is used to mix, spread and lift materials used in lab during chemical reactions.
27. Blow pipe: It is used to control stream of air across a candle flame onto a pepper corn-sized sample of the substance to be tested.
28. Burner: It is used for heating, sterilization and combustion.
29. Brush: It is used for cleaning test-tube and narrow mouth laboratory glassware such as graduated cylinder, burettes, etc.
30. Volumetric flask: It is used for precise dilutions and preparation of standard solutions.

RESULT

Hence, from the experiment, the apparatus used in chemistry laboratory were studied.

[Signature]
27/11/20