

TDC Part III

Practical (Lab Work)



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**TOPIC:- SELF ASSESSMENT
QUESTIONS**

SELF ASSESSMENT QUESTIONS

Q 1. Give the name of burner used in the laboratory and also give the name of gas used in the burner

Ans: Bunsen burner is used in the laboratory and LPG is used for burning in the Bunsen burner, which is the mixture of lower alkanes mainly propane and isobutene.

Q 2. Which chemicals are used for cleaning the glass apparatus in the laboratory?

Ans: Mixture of concentrated H_2SO_4 and HNO_3 or chromic acid solution can be used for cleaning the glass apparatus in the laboratory

Q 3. Which substance is used to prepare the filter paper?

Ans: Cellulose is used to prepare the filter paper.

Q 4. Why we use the chemical balance instead of electronic balance in the laboratory?

Ans: Chemical balance gives the more précised results in compare to the electronic balance due to which we use the chemical balance instead of electronic balance in the laboratory.

Q 5. Which chemical is used the desiccators? Ans: Anhydrous CaCl_2 is used in the desiccator.

Q 6. Which chemical is used when skin is burnt by acid?

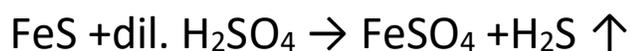
Ans: When skin is burnt by dilute acid then washing with NH_4OH can be used but when skin is burnt by concentrated H_2SO_4 then washing by BaCl_2 solution can be used.

Q 7. Why silica crucible is heated before weighing it during gravimetric experiments?

Ans: Silica crucible having the strong tendency to adsorb the moisture by which its accurate weight cannot be obtained which cause the non-accuracy in the results during the various experiments due to this reason silica crucible is heated before weighing it during gravimetric experiments.

Q 8. Give the name of apparatus used to prepare H_2S gas in laboratory and also give the method to prepare it.

Ans: Kipp's apparatus is used to prepare the H_2S gas in the laboratory and it is prepared by the reaction of dilute H_2SO_4 with ferrous sulphide (FeS) according to the following reaction.



Q 9. What substance is used in making the centre of wire gauge?

Ans: Centre of wire gauge is constructed by the Asbestos.

Q 10. What is the necessary condition for the fractional distillation during the separation of the two volatile liquids from the mixture

Ans: There should be the difference of boiling points about 40°C for the fractional distillation during the separation of the two volatile liquids from the mixture.