Common Laboratory Apparatus and Equipments 1. Mention one use of each of the following equipments : (a) Spirit Lamp : It is used to heat up Substances. (b) Pest tube of It is used to conduct tests with small quantities of chemicals for heating and boiling purposes. (c) Conical Flask & It holds sufficient quantities of Substances in the form of Solution. (d) Evaporating disk & 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

(i) Glass tube : It is used to transfer fluids or gases from one vessel to another.

(i) Gas jar à It is used for collecting gases and holding them in captivity vaccum.

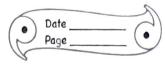
(k) Reagent bottle of It is used for storing chemicals.

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

(a) Test tube rack à wood or plastic

6) Test tube holder & Iron clamp at front and wood or plastic handle at other end.

- Glass (c) Measuring cylinder o
- (d) Wire gauze : Made of meshed iron wire and a thin asbestos sheet that is fixed at its Centre.
- (e) Mortar and pestle & Porcelain
- 3. List any five precautions to be taken while performing an experiment in a chemistry laboratory.
- Ans- 1 Do not touch or taste any unknown Subsfance.
 - Duse only small quantity of chemical to carry out experiment.
 - 3) Do not work alone in the lab.
 - 9) Do not throw hot concentrated acids into the Sink directly.
 - (5) Aways wear an aptron in the lab to
 - 6) While heating keep the mouth of test-tube away from your eyes and face.
 - (7) The apparatus to be used in an experiment should be arranged neatly



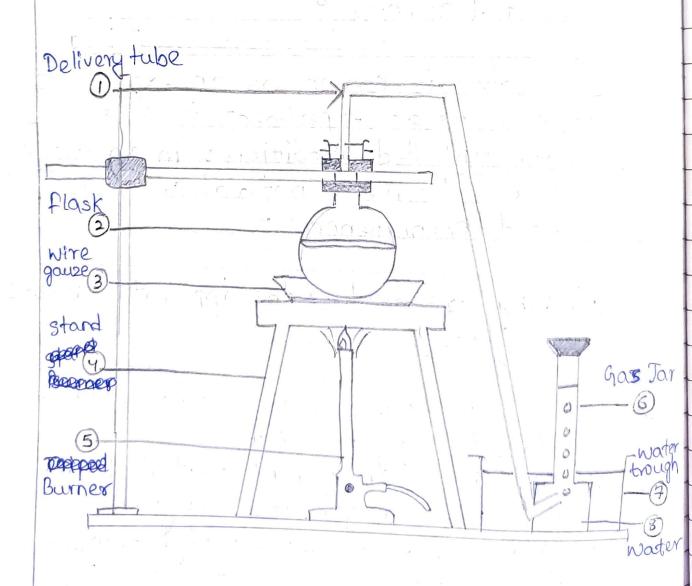
before beginning an experiment. Do not throw broken glass apparatus or used filter paper in the Sink. Throws them in a dustbin. a copyl the marked equipments and inde 4. Answer the following questions in brief: a) why is chemistry known as an experi-Ans chemistry is known as an experimental Science as 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?

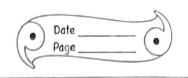
Ans Most of the appartus are made of glass becauses. 1) Glass is easy to clean 2) Glass is a transparent material and we can see through it clearly. 3) glass is can withstand high temperatures.

9) If does not react with most of the chemical

used in experiments.

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





Objective type questions:

1,	Fill	in	the	bla	nks	0	_
- 1							

a) Experiments and observation are the two important basics of chemistry.

b) A porcelain dish is used for evaporation.

C) Test tube holder is used to hold the test tube while it is not or being heated.

and crushing solid substances into a powder.

ex Glass apparatus is made of Pyrex or borosil glass.

2. Match the following or

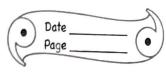
(a) Iron stand i) To boil chemicals (b)

(b) Test tube ii) To keep Solutions (d)

(c) funnel iii) To Stir Solutions (e)

(d) Beaker IV To Support apparatus (a)
(e) Glass rod V To transfer liquids (c)

- 3. choose the Correct alternatives from the options given &—
- (a) Evaporating dish is made of Porcelain
- (b) spirit lamp is made of all of the above (glass, brass, steel)
 - (c) The apparatus to measure an accurate volume of a liquid is measuring cylinder.
 - (d) To pass a gas from one vessel to another you will use delivery tube.
 - (e) To prevent the escape of a gas from a gas jar, you will cover its mouth with watch glass
 - 4. Write true or false :-
- (a) Aiglass funnel is used to pour off liquids. True
- (b) A test tube is used to test liquid



	chemicals. False
	(A Lall)
	frestrube is used to test chemicals and
	(A test-tube is used to test chemicals and for heating and boiling purposes.)
	A mortar and Pestle is used for evapo- ration. false.
	ration. false.
	(Mortar and Pestle is used to grind and crush Solid Substances into powder)
	crush solla substances into powder)
(d)	A glass med is used to stir saletime.
	A glass not is used to stir solutions. True.
(e)	A round-bottom flask is used to store chemicals. False
7	chemicals. False
	(A Reagant battle is used I I
	(A Reagent bottle is used to store chemicals)
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