

FBISE PRACTICAL BASED ASSESMENT (PBA)
CHEMISTRY HSSC-II
(Curriculum 2006)

Guidelines/instructions for teachers/paper setters:

- i. There will be two Sections in PBA paper. In Section-A there will be one question having parts in it. Similarly, in Section-B there will be one question having parts in it.
- ii. In Section-A, Question No. 1 will be based only on one experiment taken from Part-I of the list of practicals.
- iii. In Section-B, Question No. 2 will be based on multiple experiments taken from Part-II of the list of practicals.
- iv. Weightage of Part-I practicals is 60% while weightage of Part-II practicals is 40% in the PBA paper.
- v. Draw diagram(s) if asked for.
- vi. In the new pattern of practicals i.e. Practical Based Assessment (PBA), there will be no marks for practical note books and viva voce. However, students may record procedures, observations, apparatus and calculation etc on any type of plain papers/work sheets / practical folder for their future memory of all aspects of practical performance in order to attempt the PBA Examination amicably.
- vii. It may be noted that performance of all the prescribed practicals is mandatory in the laboratories during the whole academic year and only those students will be able to attempt the PBA who will have performed the practicals in the laboratories as per requirement of each practical.
- viii. MCQs will not be asked in PBA paper.
- ix. The 0.5 mark question will not be asked in any section of PBA paper.

List of Practical's HSSC-II
Chemistry (Curriculum 2006)

Sr. No	Part-I 60% of Practical Marks (09 Marks)
01	Detect following cations by dry/wet tests. Cu^{2+} , Fe^{2+} , Fe^{3+} , Ca^{2+} , Ba^{2+} , Pb^{2+} , Cr^{3+} , Zn^{2+} , NH_4^{1+}
	Detect following anions by dry/wet tests. SO_4^{2-} , CO_3^{2-} , Cl^{1-} , Br^{1-} , I^{1-} , NO_3^{1-}
02	Identify Aldehyde and Ketone functional Group

Sr. No	Part-II 40% of practical marks (06 Marks)
01	Prepare Nickel Dimethyl Glyoxime.
02	Prepare Iodoform.
03	Identify the Carboxylic Acid Functional Group.
04	Prepare Glucosazone
05	Identify Phenol functional group.



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**Model Questions Paper Chemistry HSSC-II
Practical Based Assessment (PBA) (2025)**

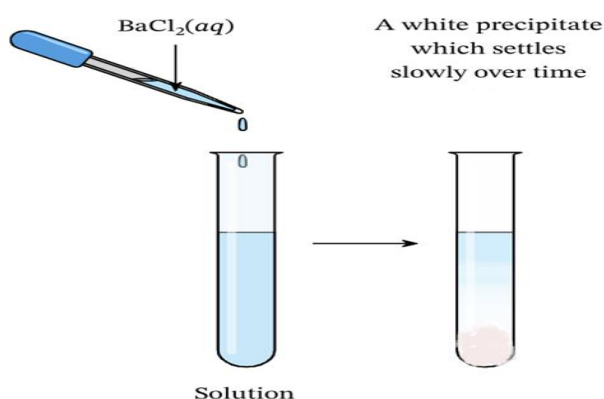
Total Marks: 15

Time: 01 hour

Note: Attempt all questions and write answers within provided spaces.

SECTION A (09)

Q.No.1 The purpose of experiment is to analyze anion (acid radical) and cation (basic radical) from the given salt X.

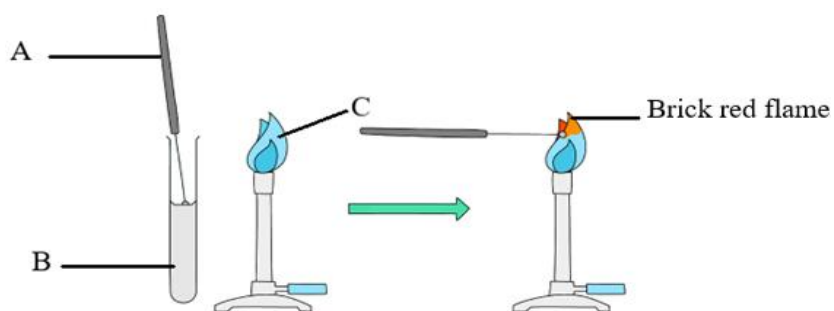


- i.** When $BaCl_2$ solution is added in salt solution, white precipitates are formed. This is the indication of SO_4^{2-} or CO_3^{2-} , how can you identify that precipitates are of SO_4^{2-} not CO_3^{2-} ? **[01]**

ii. Write two confirmatory tests of SO_4^{2-}

[02]

Experiment	Observation	Inference
i.		
ii.		



iii. When the salt **X** is subjected to flame test, it gives brick red flame. Which basic radical 'Z' is indicated in this result?

[01]

iv. Give two confirmatory tests of the radical indicated in, **iii**.

[02]

Experiment	Observation	Inference
i.		
ii.		

v. Write the name and formula of the obtained salt **X**.

[01]

vi. Label the above experimental arrangement A,B and C and explain the procedure.

[02]

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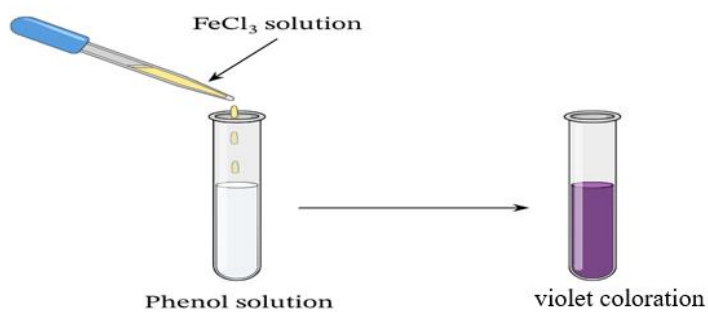
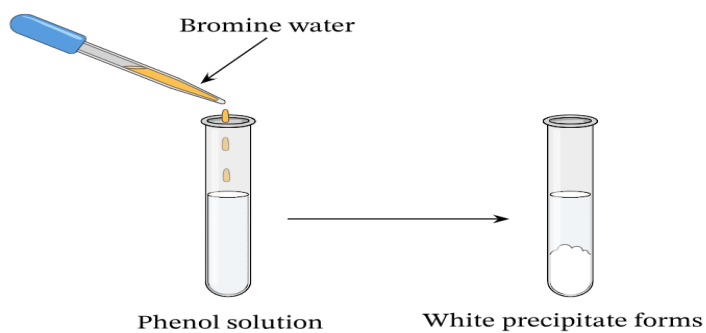
SECTION B (06)

Question 2: Give answers to following questions.

i. Draw structure of Nickel dimethyl glyoxime.

[01]

ii. Following are the two chemical tests carried out for phenol detection. Write complete reaction for observed products for identification of phenol functional group? [02]



iii. Collect and list the names of the apparatus and chemicals required for preparation of Glucosazone. [01]

iv. Write the name of reagent and observation involved in the identification of carboxylic acid. Also write the chemical equation involved. **[01]**

v. Write chemical equation involved in the preparation of Iodoform. Also identify the appearance of Iodoform. **[01]**
