

GIRLS' HIGH SCHOOL & COLLEGE, PRAYAGRAJ

SESSION 2020 – 21

CLASS – 8 (A, B, C, D &E)

SUBJECT – CHEMISTRY

ASSIGNMENT - 3

INSTRUCTIONS FOR THE E -LEARN ASSIGNMENT: Parents to ensure that their ward watches the video instructions for this assignment by clicking on the given link:

<https://youtu.be/1t1a2QHEqF4>

<https://youtu.be/9aMWpouG8ZA>

She should revise the lesson given in the book and then work on the assignment. The completed assignment is to be downloaded and filed / copy /pasted in the subject file/ copy and kept ready for submission. The day, date and procedure of submission shall be notified later.

Links referred-

<https://youtu.be/ZCzgQXGz9Tg>

<https://youtu.be/lZTTzAkeSFQ>

ANSWER THE FOLLOWING QUESTIONS:

1. Answer the following questions in short:
 - a) What is a mixture?
 - b) What are alloys? Give two examples.
 - c) How can you separate iron filings from sulphur?
 - d) What is the difference between adsorption and absorption?
2. Answer the following questions in detail:
 - a) Differentiate between homogeneous and heterogeneous mixture.
 - b) State four characteristics of a mixture.
 - c) Briefly describe how you will separate benzene from toluene.
 - d) How would you separate dyes of an ink? Explain.
3. Draw a neat and well labelled diagram to show the process of 'Fractional distillation'.

4. Objective Questions

- a) Fill in the blanks –
 - (i) The liquid, above the sediment, during sedimentation process, is called the _____ liquid.
 - (ii) The clear liquid, obtained during filtration process is called the _____.

- (iii) The different pure substances, which a mixture is made up of, are called the _____ of the mixture.
- (iv) The phenomenon in which a substance gets vaporised without melting is called _____.
- (v) An array of colours obtained in chromatography is called _____.

b) Choose the correct option –

- (i) _____ is a mixture of sodium silicate, potassium silicate and lead silicate. (cement / glass)
- (ii) Bronze is an alloy of copper and _____ (nitrogen / tin)
- (iii) _____ is a mixture of water + air. (smoke / mist)
- (iv) In chromatography, the adsorbent part is called the _____ phase. (mobile/stationary)
- (v) A separating funnel is used to separate _____ liquids. (miscible/immiscible)

c) **Answer True or False.**

- (i) An alloy is a heterogeneous mixture.
- (ii) A husk – water mixture can be separated by sedimentation method.
- (iii) A fizzy drink contains carbon dioxide, water and a sweetener in the same proportion throughout.
- (iv) Common salt is obtained by the evaporation of sea water.
- (v) Sulphur is soluble in carbon disulphide.

THE END