

# DELHI PUBLIC SCHOOL, JAMMU

Month: July, 2021 Assignment

CLASS: XII (A, B, C, D)

SUB: CHEMISTRY

TOPIC: CHAPTER- 7: p- block elements

Based on your understanding of the E- Lectures-cum-PPT's, video links and other e-resources shared with you, answer the following questions.

- Q1. How is adsorption of a gas related to its critical temperature? (1)
- Q2. What is meant by Shape Selective Catalyst? (1)
- Q3. Draw the structure of  $H_3PO_4$ . (1)
- Q4.  $PCl_5$  is ionic in nature in the solid state. Give reason. (2)
- Q5. What is laughing gas? Why is it so called? How is it prepared? (2)
- Q6. Comment on the statement that "colloid is not a substance but state of a substance"? (2)
- Q7. Write short notes on followings: - (3)
- (a) Tyndall effect
  - (b) Brownian movement
  - (c) Hardy Schulze Rule
- Q8. Give the chemical reactions in support of following observations: (3)
- a) The +5 oxidation state of Bi is less stable than +3 oxidation state.
  - b) Sulphur exhibits greater tendency for catenation than selenium.
- Q9. i) Discuss the allotropes of the Phosphorus. (3)
- ii) Write Phosphorous is more reactive than red phosphorous. Explain.
- Q10. Differentiate between Lyophobic & Lyophilic colloids? (3)

## You-tube Links:

1. <https://youyu.be/examfear.com>

## Note:

1. Due Date of Submission: 7 August, 2021.

2. Send your answers here:

XII- A. [tanvinderkour19@gmail.com](mailto:tanvinderkour19@gmail.com)

XII- B. [deepshak.saini24@gmail.com](mailto:deepshak.saini24@gmail.com)

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3. Students must mention their name, class/section and date in their assignments

4. Your assignment will be marked for Internal /Term assessments. Therefore, it is necessary for you to submit it on time.

