

AP BOARD INTERMEDIARY 1ST YEAR PREVIOUS YEAR PAPER CHEMISTRY – 2017

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Total No. of Questions - 21	Regd.						
Potal No. of Printed Pages - 2	No.	-	10	1 - 1			

Part - III CHEMISTRY, Paper - I (English Version)

Time: 3 Hours Max. Marks: 60

Note: Read the following instructions carefully.

- Answer all questions of Section 'A'. Answer any six questions in Section 'B' and any two questions in Section 'C'.
- 2) In Section 'A', questions from Sr. Nos. 1 to 10 are of "Very Short Answer Type". Each question carries two marks. Every answer may be limited to 2 or 3 sentences. Answer all these questions at one place in the same order.
- 3) In Section 'B', questions from Sr. Nos. 11 to 18 are of "Short Answer Type". Each question carries four marks. Every answer may be limited to 75 words.
- 4) In Section 'C', questions from Sr. Nos. 19 to 21 are of "Long Answer Type". Each question carries eight marks. Every answer may be limited to 300 words.
- 5) Draw labelled diagrams wherever necessary for questions in Sections 'B' and 'C'.

SECTION A

 $10 \times 2 = 20$

Note: Answer all questions.

- 1. Write any two adverse effects of global warming.
- 2. Define the sink and receptor.
- 3. Write the effect of temperature on surface tension and viscosity. Give reason to that.
- 4. Calculate the oxidation number of 'Cr' in $K_2Cr_2O_7$.
- 5. Define the ionic product of water.
- 6. What is plaster of Paris?
- 7. Write any four uses of ${\it CO}_2$ gas.



$\begin{array}{c} \text{AP BOARD INTERMEDIARY } 1^{\text{ST}} \text{ YEAR PREVIOUS YEAR PAPER} \\ \text{CHEMISTRY} - 2017 \end{array}$

- 8. Why are alkali metals not found in the free state in nature?
- 9. Why the graphite is good conducter of electrocity?
- 10. What is the type of hybridization of each carbon in the following compound?

 $HC \equiv C - CH = CH_2$

SECTION B

 $6 \times 4 = 24$

Note: Answer any six questions.

- 11. State and explain Graham's law of diffusion.
- 12. A carbon compound contains 12.8% carbon, 2.1% hydrogen, 85.1% bromine. The molecular weight of the compound is 187.9. Calculate the molecular formula (At. wt C = 12, H = 1, Br = 80).
- 13. What is hydrogen bond? Explain the different types of hydrogen bonds with examples.
- 14. State and explain Hess's law of constant heat summation. Give an example.
- 15. What are homogenous and heterogenous equilibria? Give two examples of each.
- 16. Write any four uses of dihydrogen (H_2) .
- 17. Explain the structure of diborane.
- 18. Define the dipole moment. Why the BF_3 molecule dipole moment is zero?

SECTION C

 $2 \times 8 = 16$

Note: Answer any two questions.

- 19. What are the postulates of Bohr's model of hydrogen atom? Discuss the importance of this model to explain various series of line spectra in hydrogen atom.
- 20. Write the classification of elements into s, p, d and f blocks in long form of periodic table.
- 21. Write the following reactions with equations.
 - a) Wurtz's reaction
 - b) Polymerization of ethylene
 - c) Addition of water to acetylene
 - d) Nitration of benzene

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