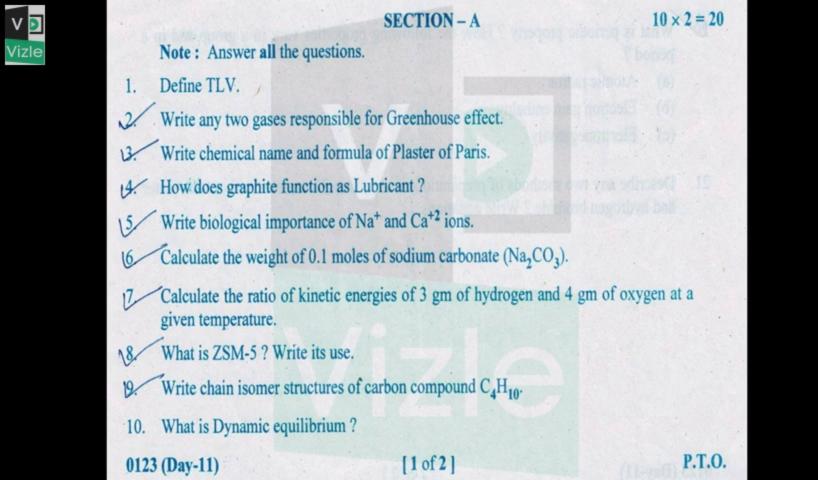


TELANGANA INTERMEDIATE QUESTION PAPERS

1ST YEAR CHEMISTRY

MARCH 2020 MARCH 2019
MARCH 2018 MARCH 2017
MARCH 2016 MARCH 2015
MARCH 2014 MARCH 2013
MARCH 2012



- Write the postulates of Bohr's model of hydrogen atom. Explain various lines in hydrogen spectra.
 - What is periodic property? How the following properties vary in a group and in a period?
 - (a) Atomic radius
 - (b) Electron gain enthalpy
 - (c) Electronegativity
 - Describe any two methods of preparation of acetylene. How does it react with water and hydrogen bromide? Write equations.



Time: 3 Hours Max. Marks: 60

SECTION - A

 $10 \times 2 = 20$

Note: (i) Answer ALL questions

(ii) Each question carries TWO Marks

(iii) ALL are very short answer type questions

- What is Bio-chemical Oxygen Demand (BOD)?
- 2. What is Bronsted base? Give an example
- 3. Why is gypsum added to cement?
- 4. Calculate the kinetic energy of 4 moles of methane at -73°C?
- 5. A solution is prepared by adding 2 g of a substance 'A' to 18 g of water.

Calculate the mass percentage of solute.



TS 1ST YEAR CHEMISTRY QUESTION PAPER - 2019

- 6. Write any two uses of Mg metal.
- 7. Write the use of ZSM 5.
- 8. How does graphite function as a lubricant?
- 9. Which oxides cause acid rain?
- Write IUPAC names of the following.
 - a) $CH_2 = CH CH = CH_2$

SECTION - B

Note: (i) Answer ANY SIX questions (ii) Each question carries FOUR Marks

(iii) ALL are short answer type questions

 $6 \times 4 = 24$



SECTION - C

 $2 \times 8 = 16$

Note: (i) Answer ANY TWO questions

- (ii) Each question carries EIGHT Marks
- (iii) ALL are long answer type questions
- How are the quantum numbers n, l and m arrived at? Explain the significance of these quantum numbers.
- 20. Define IE₁ and IE₂. Why IE₂ > IE₁ for the given atom? Discuss any four factors that affect IE of an element.
- 21. Write any two methods of preparation of benzene with corresponding equations. How methyl benzene and acetophenone are prepared from benzene?

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Time: 3 Hours Max. Marks: 60

SECTION - A

 $10 \times 2 = 20$

Note: (i) Answer all questions

(ii) Each question carries two Marks

(iii) All are very short answer type questions

- 1. State first law of thermodynamics
- 2. State Graham's law of diffusion.
- Calculate the oxidation number of Manganese (Mn) in MNO₄ ion.
- 4. What is Lewis acid? Give one example
- 5. Lithium reacts with water less vigorously than sodium. Give reason.



- 6. What happens when magnesium metal is burnt in air?
- 7. What is Bio-chemical Oxygen Demand (BOD).
- Write IUPAC names of the following.
 a) CH₃ CH₂ CH₂ CH = CH₂

- 7. Which gases cause Green House Effect?
- 8. State Hess law of Constant heat Summation.

SECTION - B

Note: (i) Answer any six questions
(ii) Each question carries four Marks
(iii) All are short answer type questions

 $6 \times 4 = 24$



SECTION - C

 $2 \times 8 = 16$

- Note: (i) Answer any **two** questions
 - (ii) Each question carries eight Marks
 - (iii) All are long answer type questions
- 19. What are the postulates of Bohr's model of hydrogen atom? Explain the formation of lines in the Hydrogen spectrum.
- 20. How the following properties varies in a group and in a period?
 - (a) Atomic radius (b) Ionisation enthalpy
 - (c) Electronegativity (d) Electron gain enthalpy
- 21. Write any two methods of preparation of ethylene. How does it reacts with the following?
 - (a) Cold, dil.alk.KMnO₄
 - (b) Br₂ / CCl₄

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