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

SECTION – A

$10 \times 2 = 20$

Note : Answer **all** the questions.

1. Define TLV.
2. Write any two gases responsible for Greenhouse effect.
3. Write chemical name and formula of Plaster of Paris.
4. How does graphite function as Lubricant ?
5. Write biological importance of Na^+ and Ca^{+2} ions.
6. Calculate the weight of 0.1 moles of sodium carbonate (Na_2CO_3).
7. Calculate the ratio of kinetic energies of 3 gm of hydrogen and 4 gm of oxygen at a given temperature.
8. What is ZSM-5 ? Write its use.
9. Write chain isomer structures of carbon compound C_4H_{10}.
10. What is Dynamic equilibrium ?

SECTION – C

$2 \times 8 = 16$

Note : Answer any **two** questions.

19. Write the postulates of Bohr's model of hydrogen atom. Explain various lines in hydrogen spectra.

20. 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

21. Describe any two methods of preparation of acetylene. How does it react with water and hydrogen bromide ? Write equations.

TS 1ST YEAR CHEMISTRY QUESTION PAPER - 2019

Time: 3 Hours | Max. Marks : 60

SECTION – A

10 x 2 = 20

Note: (i) Answer **ALL** questions
(ii) Each question carries **TWO** Marks
(iii) **ALL** are very short answer type questions

1. 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?

10. Write IUPAC names of the following.
    a) $CH_2 = CH - CH = CH_2$

    b) $CH_3 - \overset{\overset{CH_3}{|}}{C} = CH - CH_3$

SECTION – B 6 x 4 = 24

Note: (i) Answer **ANY SIX** questions
(ii) Each question carries **FOUR** Marks
(iii) **ALL** are short answer type questions

TS 1ST YEAR CHEMISTRY QUESTION PAPER - 2019

SECTION – C 2 x 8 = 16

Note: (i) Answer **ANY TWO** questions
(ii) Each question carries **EIGHT** Marks
(iii) **ALL** are long answer type questions

19. How are the quantum numbers n, l and m arrived at? Explain the significance of these quantum numbers.

20. Define IE_1 and IE_2. Why $IE_2 > IE_1$ 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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TS 1ST YEAR CHEMISTRY QUESTION PAPER - 2018

Time: 3 Hours | Max. Marks : 60

SECTION – A

10 x 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.
3. Calculate the oxidation number of Manganese (Mn) in MNO_4^- ion.
4. What is Lewis acid? Give one example
5. Lithium reacts with water less vigorously than sodium. Give reason.

TS 1ST YEAR CHEMISTRY QUESTION PAPER - 2018

6. What happens when magnesium metal is burnt in air?

7. What is Bio-chemical Oxygen Demand (BOD).

8. Write IUPAC names of the following.
   a) $CH_3 - CH_2 - CH_2 - CH = CH_2$

   b) $CH_3 - CH_2 - \overset{\overset{O}{\|}}{C} - CH_3$

7. Which gases cause Green House Effect?

8. State Hess law of Constant heat Summation.

SECTION – B 6 x 4 = 24

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

TS 1ST YEAR CHEMISTRY QUESTION PAPER - 2018

SECTION – C 2 x 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.$KMnO_4$
(b) Br_2 / CCl_4

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