### Model Paper "Chemistry-II"

#### Objective (Objective)

**Note:** You have four choices for each objective type question as A, B, C and D. Choose the correct answer and encircle it. Cutting, erasing, overwriting, encircling more than one option, using of lead pencil will result in zero mark in that question.

<table>
<thead>
<tr>
<th>(D)</th>
<th>(C)</th>
<th>(B)</th>
<th>(A)</th>
<th>QUESTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mol dm$^3$</td>
<td>Mol$^{-1}$ dm$^3$</td>
<td>Mol$^{-1}$ dm$^3$</td>
<td>Mol dm$^3$</td>
<td>For a reaction between PCl$_5$ and Cl$_2$ to form PCl$_3$, the units of Kc are</td>
</tr>
<tr>
<td>12.61</td>
<td>12.31</td>
<td>1.397</td>
<td>1.698</td>
<td>Acetic acid is used for</td>
</tr>
<tr>
<td>C$<em>n$H$</em>{2n}$</td>
<td>C$<em>n$H$</em>{2n+1}$</td>
<td>C$<em>n$H$</em>{2n-2}$</td>
<td>C$<em>n$H$</em>{2n+2}$</td>
<td>Dehydration of alcohols can be carried out with</td>
</tr>
<tr>
<td>Glucose</td>
<td>Sucrose</td>
<td>Cellulose</td>
<td>Starch</td>
<td>Photosynthesis process produces</td>
</tr>
<tr>
<td>Maltose</td>
<td>Fructose</td>
<td>Glucose</td>
<td>Sucrose</td>
<td>The most important oligosaccharide is</td>
</tr>
<tr>
<td>Al metal</td>
<td>Hg metal</td>
<td>Cr metal</td>
<td>Pb metal</td>
<td>Acid rain affects the aquatic life by closing fish gills because of</td>
</tr>
<tr>
<td>Troposphere</td>
<td>Thermosphere</td>
<td>Stratosphere</td>
<td>Mesosphere</td>
<td>Just above the Earth’s surface is</td>
</tr>
<tr>
<td>Quick lime</td>
<td>Lime water</td>
<td>Soda lime</td>
<td>Na$_2$ Zeolite</td>
<td>Permanent hardness of water is removed by adding</td>
</tr>
<tr>
<td>Jaundice</td>
<td>Cholera</td>
<td>Hepatitis</td>
<td>Fluorosis</td>
<td>A disease that causes bone and tooth damage is</td>
</tr>
<tr>
<td>CuS and FeO</td>
<td>Cu$_2$S and FeS</td>
<td>Cu$_2$O and FeO</td>
<td>FeS and CuS</td>
<td>Matte is a mixture of</td>
</tr>
</tbody>
</table>
NOTE: THIS IS MODEL PAPER FOR GUIDANCE OF STUDENTS & TEACHERS

(2nd Year) 2014

Part I

10. Write short answers to any FIVE (5) questions:


(ii) Describe the difference between Forward Reaction and Reverse Reaction.

(iii) Why pure water is not a strong Electrolyte?

(iv) Write down the names of two natural acids and their sources.

(v) Write down the uses of Sodium Chlorate.

(vi) Write two uses of bases.

(vii) What is Closed Chain? Write the name of its types.

(viii) What is Functional Group?

12. Write short answers to any SIX (6) questions:

(i) How can we prepare Ethyne by dehydrohalogenation of vicinal Dihalides?

(ii) Write the names and general formulas of unsaturated hydrocarbons.

(iii) Give two uses of Ethyne.

(iv) Write uses of Vitamin-D.

(v) What are Fat Soluble Vitamins? Write or name examples.

(vi) What is difference between Oil and Ghee?

(vii) Where Ozone is found?

(viii) Write sources of oxides of carbon.

(ix) Give two serious effects of Ozone depletion.

10. Write short answers to any FIVE (5) questions:

(i) How detergents pollute water?

(ii) What do you mean by water as solvent?

(iii) What are Boiler Scales? How these are abolished?

(iv) Why pesticides are used?

(v) What is gangue?
(vii) What are Fertilizers?
(viii) Write the uses of Fuel Oil.

(PART - II)

Note: Attempt any THREE questions.

4. 5 (a) Give four macroscopic characteristics of dynamic equilibrium.
(b) Describe reaction of acids with metals.
6. (a) What are homocyclic compounds? Explain its two classes with examples.
(b) Write down the physical properties of alkenes.
7. (a) Write down the sources and uses of carbohydrate.
(b) How Acid rain increases the Acidity of soil?
8. (a) Explain the Agricultural Effluents.
(b) Describe three steps involved in the manufacturing of urea.
9. (a) How sodium carbonate is prepared by Solvay Process?
(b) Why CO is considered dangerous for life?

(PRACTICAL PART)

Note: Attempt any TWO questions.

3 A. (i) How you can determine the exact molarity of a solution of Oxalic acid Volumetrically? Write its procedure.
(ii) Write apparatus used in titration process.
3 B. (i) How you can classify substances as Acidic, Basic or Neutral? Write its procedure.
(ii) Write the apparatus used to identify Carboxylic Acid
3 C. (i) Write procedure to show that sugar decomposes into elements or other compounds.
(ii) Name the main product obtained when acidified $KMnO_4$ react with ethane.