## MALAPPURAM

## SSLC PRE MODEL EXAMINATION – 2023 MPM-204 B



Time :- 45 minutes

## **CHEMISTRY**

(ENGLISH)

Total Score :- 20

(Mvdmoti)	
Answer any 2 questions from 1 to 3.Each question carries 1 score (2 x 1 = 2)  1)Some refining methods of metals are given below. Fill in the blanks suitably Lead-Liquation Mercury	1 1 1
Answer any 2 questions from 4 to 6. Each question carries 2 scores (2x2=4)	
4)A chemical reaction taking place in the blast furnace during the industrial production	
of iron is given below	
$CaO+SiO_2 \rightarrow CaSiO_3$	2
Identify flux and gangue	2 2
5)Sulphuric acid is not used as a drying agent in the preparation of ammonia. Give reason?	
6)a)Write down the IUPAC name of the compound CH <sub>3</sub> -CH <sub>2</sub> -OH	1
b)Write the structure of its functional isomer?	1
Answer any 2 questions from 7 to 9.Each question carries 3 scores (2x3 =6) 7)Sulphuric acid is an important industrial chemical.	
a)Write the name of industrial preparation of sulphuric acid?	1
b)Sulphuric acid is also formed by the direct dissolution of sulphur tri oxide in water.But this	1
method is not adopted. Give reason?	2
8)a)Not all the minerals are ores, but all the ores are minerals. Do you agree with this statement.	_
Justify your answer?	2
b)Which is the main ore of iron?	1
9)Details about a saturated open chain organic compound is given below	
1)There are 3 carbon atoms in the main carbon chain	
2)There is a chloro group in the second carbon atom	
a)Write down the IUPAC name of this compound?	1
b)Write down the structure of a possible position isomer of this compound?	2
Answer any 2 questions from 10 to 12.Each question carries 4 scores (2x4=8)	
10)Structure of an organic compound is given below	
CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH-CH <sub>3</sub>	
CH <sub>3</sub>	
Answer the following questions	
a)Number of carbon atoms in the largest chain b)Name of branch c)Position of branch d)IUPAC name	4
11)Alloy steels are prepared by adding other metals to steel.	4
a)Which alloy steel is used for making heating coils?	1
b)Which alloy steel is used for making permanent magnets?	1
c)Eventhough nichrome and stainless steel contain the same components, they posses different	
properties. Give reason?	2
12)Two reversible reactions involving gaseous molecules are given below	
a)A+2B⇒2C+D	
b)P+2Q=R+S	
How the rate of forward reaction get influenced when the pressure of the system	
is increased in both equilibriium system?	4