NATIONAL EDUCATION SOCIETY'S HIGH SCHOOL.
BHANDUP (W), MUMBAI – 400 078.

STD. :-X, DIV. :- _____   III - Preliminary Examination   MARKS :- 20
ROLL NO. :- _____   SUB. :- SCIENCE & TECHNOLOGY - I   TIME :- 1Hr.
                              No of Pages-02

QI A) Select the correct Options and write the completed   **3 Mks**
sentence.

1) _____ represents the lens formula.

a) $\dfrac{1}{V} + \dfrac{1}{U} = \dfrac{1}{F}$

b) $\dfrac{1}{V} - \dfrac{1}{U} = \dfrac{1}{F}$

c) $\dfrac{1}{V} + \dfrac{1}{U} = \dfrac{2}{F}$

d) $\dfrac{1}{U} - \dfrac{1}{V} = \dfrac{1}{F}$

2) Ethylene has _____ bond between two carbon atoms.

   a) a single b) a double c) a triple d) anionic

3) The SI unit of the universal constant of gravitation is _____

   a) m^2/kg^2

   b) N kg^2/m^2

   c) m/s^2

   c) kg. m/s^2

B) 1) Give 2 example of Low Earth Orbit Satelittes.   **1 Mks**

2) Compounds which added to lower the fusion
temperature during extraction of aluminium.   **1 Mks**

QII Answer the following :

1) Explain Generally the ionic compounds have high melting points.
2) What is a catalyst ? Write any one reaction which is brought about by the use of catalyst .

Q.III Answer the following :

6 Mks

1) Write the three laws given by Kepler
2) Asha uses spectacles and the power of the lens in her spectacles is 1.5 D.
   Answer the following questions.
   i) Name the defect of eye from which she is suffering
   ii) What type of lens is she using ?
   iii) Find the focal length of the lens.

Q.III

a) Draw a neat labeled diagram of Froth Flotation method.   2 mks

b) Why is pine oil used in the froth Floatation process 2 mks

c) 'Iron filings are dropped in aqueous solution of copper sulphate.
   Write the chemical equation for this reaction.   2 mks