## NATION

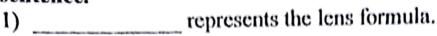
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III - Preliminary Examination SUB. :- SCIENCE & TECHNOLOGY - I No of Pages-02

TIME : 1Hr.

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





b) 
$$\frac{1}{v} - \frac{1}{u} = \frac{1}{F}$$

c) 
$$\frac{1}{V} + \frac{1}{U} = \frac{2}{F}$$
 d)  $\frac{1}{U} - \frac{1}{V} = \frac{1}{F}$ 

$$d)\frac{1}{u} - \frac{1}{v} = \frac{1}{F}$$

2) Ethylene has \_\_\_\_\_ bond between two carbon atoms.

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

3) The SI unit of the universal constant of gravitation is \_\_\_\_\_

a)  $m^2/kg^2$ 

b) N k $g^2/m^2$ 

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 form 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 Mk

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.

