

FORMATIVE ASSESSMENT-1  
CHAPTERS - 1,2,3

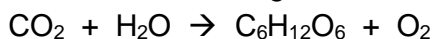
Name:..... Section:..... Roll No:..... Max.Marks:25

**I. Answer the following questions. Each carries four marks. 2 x 4 = 8 M**

- 1) Where the image is formed when an object is placed on the principal axis of a concave mirror between the centre of curvature and the focus. What is the character of image? Explain the formation of image with a ray diagram.
- 2) Your friend has a doubt about Chemical double displacement reaction. How can you clarify his/her doubt by showing an experiment? Explain.

**II. Answer the following questions briefly. Each carries two marks. 3 x 2 = 6 M**

- 3) Write the uses of concave mirror in our daily life.
- 4) Write the differences between oxidation and reduction. Give example.
- 5) Balance the following chemical equation ( photo synthesis reaction ):



**III. Answer the following in one or two sentences. Each carries one marks. 3 x 1 = 3 M**

- 6) What is the relation between focal length and radius of curvature of a concave mirror?
- 7) Define latent heat of a substance.
- 8) What is the principle of method of mixtures, according to heat?

**IV. Choose the correct choice and write down in the given brackets. 4 x 1 = 4 M**

- 9) When ice melts, its temperature [      ]

A. Remains constant                      B. Increases  
C. Decreases                                D. We can not say

- 10) The water droplets floating in the air is called [      ]

A. mist                      B. fog                      C. dew                      D. mist / fog

- 11) Select the mirror formula from the following [      ]

A.  $\frac{1}{f} + \frac{1}{v} = \frac{1}{u}$                       B.  $\frac{1}{u} - \frac{1}{v} = \frac{1}{f}$   
C.  $\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$                       D.  $\frac{1}{u} + \frac{1}{v} + \frac{1}{f} = 1$

- 12)  $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$  .....Which chemical reaction it is [      ]

A. Combination                              B. Decomposition  
C. Displacement                              D. Double displacement

**IV. Fill in the blanks with suitable answers. 4 x 1 = 4 M**

- 13) ..... is the combination of Zinc and copper.

- 14) If an object is placed at C on the principal axis in front of a concave mirror,  
the position of the image is .....

- 15) ..... gas is liberated, when lime stone is heated.

- 16) ..... mirror is used by ENT specialist doctors.