

FORMATIVE ASSESSMENT-1  
CHAPTERS - 1,2,3

Name:..... Section:..... Roll No:.....

Max.Marks:20

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

- 1) The rate of raise in temperature depends upon the nature of substances. How can you prove experimentally?
- 2) Balance the following chemical equations.



**II. Answer the following questions briefly. Each carries two marks. 2 x 2 = 4 M**

- 3) Write the differences between real and virtual images.
- 4) Define exothermic and endothermic reactions. If glucose powder is added to a glass of water. What happened? Identify whether it is an exothermic reaction or an endothermic reaction?

**III. Answer the following in one or two sentences. Each carries one marks. 2 x 1 = 2 M**

- 5) Two spherical mirrors are obtained from a same spherical substance. Which mirror has more focal length? Either  $M_1$  or  $M_2$  ?



- 6) Define Rancidity.

**IV. Choose the correct choice and write down in the given brackets. 6 x 1 = 6 M**

- 7) 1 calorie = .....Joule [     ]  
 A. 4.4                      B. 4.1                      C. 4.2                      D. 4.3
- 8) Heat flows from [     ]  
 A. Hot body to hot body                      B. Hot body to cold body  
 C. Cold body to hot body                      D. Cold body to cold body
- 9) The energy released in which 1 gm of water at  $0^\circ\text{C}$  freezes to 1 gm of ice at  $0^\circ\text{C}$  [     ]  
 A. 80 cal                      B. 540 cal                      C. 640 cal                      D. 720 cal
- 10) Precipitate can be shown as ..... In chemical equations. [     ]  
 A.  $\leftarrow$                       B.  $\uparrow$                       C.  $\downarrow$                       D.  $\rightarrow$
- 11) The brown coloured gas released when Lead nitrate is heated is ..... [     ]  
 A. Hydrogen                      B. Nitrogen  
 C. Nitrogen dioxide                      D. Carbon dioxide
- 12) ..... Mirrors are used in head lights of vehicles. [     ]  
 A. Plane                      B. Convex  
 C. Concave                      D. Plane or Concave