

FORMATIVE ASSESSMENT-2  
CHAPTERS – 3,4

Name:..... Section:..... Roll No:..... Max.Marks:20

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

- 1) Write about sign convention rule ?  
2) Kiran tested some substance P, Q, R and S with indicators. The results are in table.

Substance	Blue Litmus	Red Litmus	Methyl Orange	Phenolphthalene
P	Red			No change
Q		Blue		
R			Red	
S				Pink

Furnish the blanks in the table with suitable options.

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

- 3) Draw the diagrams of convex mirror and concave mirror. Indicate P, F and C in them.  
4) The focal length of a concave mirror is 10 cm. If an object is placed at 20 cm distance before a concave mirror, Where should be the image collected?

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

- 5) The teacher asked Ramitha a question. Ramitha replied the correct answer “ $R=2f$ ”. Can you guess, What was the question?

- 6) What happened when an acid reacts with a base ?

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

- 7) Concave mirror formed real, inverted and diminished image.

Where was the object placed [     ]

- A. before F      B. between F and C      C. beyond C      D. at C

- 8) Colour of methyl orange solution [     ]

- A. Pink      B. Yellow      C. Orange      D. Red

- 9) For testing an acid Harshith take a few drops of its aqueous solution and tasted it. Is it correct process? [     ]

- A. Yes, Harshith is correct      B. No, it is not correct  
C. Don't do like that. It may danger.      D. choice B and C

- 10) Identify the acid [     ]

- A. Calcium hydroxide      B. Potassium hydroxide  
C. Sodium hydroxide      D. Hydrochloric acid

- 11) Write mirror formula ..... [     ]

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

- 12) Is Soda an acid or a base ? ..... [     ]

- A. Acid      B. Base      C. Can't say      D. None of these