

**PHYSICAL SCIENCE**  
**FORMATIVE ASSESSMENT-2**  
**( 2019-2020)**

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**CLASS: 10**

**Max.Marks:20**

**NAME OF THE STUDENT:** \_\_\_\_\_

**ROLL NO:** \_\_\_\_\_

**I) Answer the following questions**

**5X1=5M**

- 1.The maximum focal length of Bhanu's eye is 2.47 cm.What defect does he has? Which lens is used to correct the defect of him?
- 2.Define the power of lens
- 3.Can a virtual image be photographed by a camera?
- 4.Write the laws of refractions
- 5.The absolute refractive index of water is  $4/3$ . What is the critical angle?

**II) Answer the following questions.**

**2x2=4M**

- 6.Suppose you inside the water in a swimming pool near an edge.A friend is standing on the edge. Do you find your friend taller or shorter than his usual height?
- 7.In what cases does a light ray not deviate at the interface of the two media?

**III) Answer the following questions.**

**2x4=8M**

- 8.Which lens do you suggest to a person who is suffering from myopia? Draw the diagrams represents that how that lens correct the vision of that person?

**(OR)**

Draw ray diagrams for convex lens and explain the nature, position of the image

- a)Object is placed at  $F_2$       b)Object is placed at beyond  $2F_2$

- 9.Explain the formation of mirage?

**(OR)**

How do you find the experimentally the refractive index of material of prism

**IV) Fill in the blanks.**

**3x1/2=1½M**

- 10.The splitting of white light into different colours is called \_\_\_\_\_
- 11.During refraction of light, the character of light which does not changes \_\_\_\_\_
- 12.The refractive index of glass with respect to air is 2. Then the critical angle of glass-air interface is \_\_\_\_\_

**V) Answer the following with one word or phrase.**

**3x1/2=1½M**

- 13.write the lens formula
- 14.Draw the symbol of Biconcave lens
- 15.How many images are formed, If a convex lens is made up of five different materials?