GHS S.2 2020

TOPICAL REVISION EXERCISE

(CURVED/SPHERICAL MIRRORS)

1. State the two types of curved mirrors and give a brief description about each of them.

2. Briefly describe a parabolic mirror and clearly state it's difference(s) from a concave mirror.

3. With the aid of a simple diagram, explain the following terms
   (a) The Pole(P)
   (b) The Centre of curvature(C)
   (c) The Principal axis
   (d) The radius of curvature(r)

4. With the aid of a diagram explain the term; Principal Focus (F) of a concave mirror.

5. With the aid of a diagram explain the term; Principal Focus (F) of a convex mirror.

6. What is the Focal length of a curved mirror? Explain the relationship between the radius of curvature and the focal length.

7. With the help of diagrams explain how the laws of reflections are applied in curved mirrors.

8. With the aid of diagram(s) explain the four rules that govern the images formed in curved mirrors.

9. With the help of diagram(s) show how images formed in concave mirrors can be located by construction. In each case give the position and nature of the image formed.
   (a) Object far away from the mirror (at infinity)

   (b) Object beyond C

(c) Object at C

(d) Object between C and F

(e) Object at F

(f) Object between F and P

10. With the help of a diagram, give the nature and position of images formed in a convex mirror.

11. State eight (8) the applications of curved reflecting surfaces.

END.