Attempt the Questions and submit Work for Marking on the eLearning Platform Q \& Forum or to Mr. Ssendawula (WhatsApp : 070037 7992)

## S. 2 PHYSICS | REVISION QUESTIONS TOPIC: Light

Reflection at Curved mirrors.

1. A concave mirror may be used as
(i) a magnifying mirror.
(ii) a torch reflector.
(iii) a driving mirror.
A. (i) only.
C. (ii) and (iii) only.
B. (i) and (ii) only.
D. (i), (ii) and (iii).
2. A concave mirror can be used as a shaving mirror because when an object is placed between the focus and the pole, the image formed is
A. magnified, virtual and erect.
B. magnified, real and inverted.
C. diminished, real and inverted.
D. diminished, virtual and erect.
3. Which of the following information is true about concave and convex mirrors?

## Concave mirror

A. Converges light
B. Diverges light
C. Refracts light
D. Has a wide field of view.

## Convex mirror

Diverges light
Converges light
Reflects light
Has a narrow field of view.
4. The bulb in a projector is placed.
A. at the focal point of the reflector.
B. at the centre of curvature of the reflector.
C. between the focal point and the centre of curvature of the reflector.
D. between the pole and the centre of curvature of the reflector.
5. An object is placed between the focal point and the centre of curvature of a concave mirror. Which of the following fully describes the image formed?
A. Real, inverted, magnified
B. Virtual, erect, magnified
C. Real, inverted, diminished
D. Real, erect, diminished.
6. A converging mirror produces a virtual, magnified and erect image when
A. The object is between the pole and the principal focus
B. The object is between the principal focus and the centre of curvature
C. The object is beyond the centre of curvature
D. The object is at infinity

## Essay Questions

1. An object 3 cm high is placed at right angles to the principle axis of a concave mirror of focal length 7.5 cm . if the object is 30 cm from the pole of the mirror, using a scale diagram, obtain the position and size of the image formed.
2. (i) By use of ray diagram, explain how a parabolic mirror is used as a solar concentrator.
(ii) State any two applications of parabolic mirrors.
3. (a) Define the following terms as applied to a concave mirror;
(i) Linear magnification
(ii) Centre of curvature of a concave mirror
(iii) principal focus
(b) State two uses of a concave and two of convex mirrors.
4. Describe an experiment to determine the focal length of a concave mirror using an illuminated object.
(5) A concave mirror of focal length 15 cm forms a real image 6 cm high at a distance of 60 cm from the mirror. By graphical construction, find;
(i) The position of the object.
(ii) The height of the object.
(iii) magnification of image.
(6) An object placed at a certain distance in front of a diverging mirror of radius of curvature 20 cm forms an image 30 cm away from the mirror. By scale drawing, determine the position of the object from the mirror.
