Reflection of light at curved surfaces

- 1. Where will the image be formed when we place an object on the principal axis of a concave mirror at a point between focus and centre of curvature?(AS1)
- 2. State the differences between convex and concave mirrors? (AS1)
- 3. Distinguish between real and virtual images. (AS1)
- 4. How do you get a virtual image using a concave mirror? (AS1)
- 5. What do you know about the terms given below related to spherical mirrors? (AS1)
- a) Pole b) Centre of curvature c) Focus
- d) Radius of curvature e) Focal length f) Principal axis
- g) Object distance h) Image distance i) Magnification
- 6. Write the rules for sign convention. (AS1)
- 7. What do you infer from the experiment which you did to measure the object distance and image distance? (AS1)
- 8. Find the distance of the image when an object is placed on the principal axis at a distance of 10 cm infront of a concave mirror whose radius of curvature is 8 cm. (AS1)
- 9. The magnification product by a mirror is +1. What does it mean?(AS1)
- 10. If the spherical mirrors were not known to human beings, guess the consequences.(AS2) Improve your
- 11.Draw suitable rays by which we can guess the position of image formed by a concave mirror? (AS5)
- 12. Show the formation of image with a ray diagram when an object is placed on the principal axis of a concave mirror away from the centre of curvature? (AS5)
- 13. Why do prefer a convex mirror as a rear-view mirror in the vehicles? (AS7)
- 14.A convex mirror with a radius of curvature of 3 m is used as rear view mirror for a vehicle. If a bus is located at 5 m from this mirror, find the position, nature and size of the image? (AS7)
- 15. To form the image on the object itself, how should we place the object infront of a concave mirror? Explain with a ray diagram? (AS3)

 If an object is placed at C on the principal axis in front of a concave mirror, the position of the image is [] a) at infinity b) between F and C c) at C d) beyond C
2. We get a diminished image with a concave mirror when the object is placed [] a) at F b) between the pole and F c) at C d) beyond C
3. We get a virtual image in a concave mirror when the object is placed [] a) at F b) between the pole and F c) at C d) beyond C
4. Which of the following represents Magnification 'm' i) v/u ii) -v/u iii) hi / ho iv) ho / hi [] a) (i),(ii) b) (ii),(iii) c) (iii),(iv) d) (iv),(i)
5. Ray which seems to be travelling through the focus of a convex mirror path of the reflected ray of an incident [] a) parallel to the axis b) along the same path in opposite direction c) through F d) through C
6. Size of image formed by a convex mirror is always []a) enlarged b) diminishedc) equal to the size of object d) Depends on position of object
7. An object is placed at a certain distance on the principal axis of a concave mirror. The image is formed at a distance of 30 cm from the mirror. Find the object distance if radius of curvature $R = 15 \text{ cm}$ [] a) 15 cm b) 10 cm c) 30 cm d) 7.5 cm
8. All the distances related to spherical mirrors will be measured from [] a) object to image b) focus of the mirror c) pole of the mirror d) image to object
9. The minimum distance from real object to a real image in a concave mirror is [] a) 2f b) f c) 0 d) f/2